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Catalogue

**SWITCHES**



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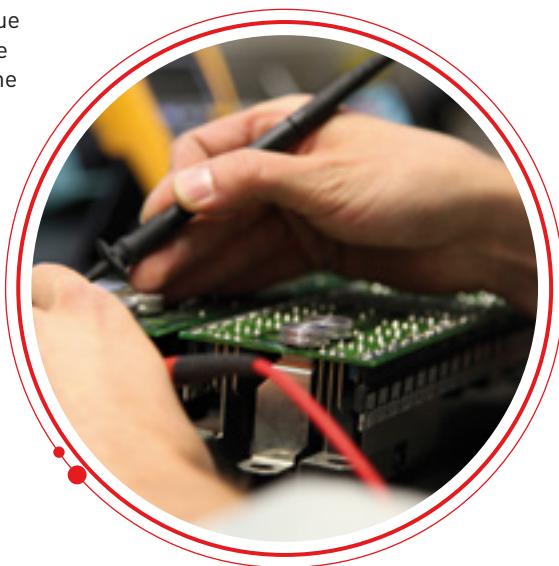
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# TABLE OF CONTENTS



<b>About TVH</b>	<b>I</b>
<b>Table of contents</b>	<b>A</b>
· English/Dutch	A
· French/German	B
· Spanish/Portuguese	C
· Italian/Polish	D
· Russian	E
<b>Nice to know</b>	<b>1</b>
· Nice to know	2
<b>Microswitches</b>	<b>5</b>
· Technical sheet	6
· Microswitches 1 piece	17
· Microswitches 2 pieces	79
· Microswitches 3 pieces	87
· Microswitches 4 pieces	93
· Microswitches 5 pieces	95
<b>Limit switches</b>	<b>97</b>
· Technical sheet	98
· Limit switches 1 piece	109
· Limit switches 2 pieces	185
<b>Toggle switches</b>	<b>191</b>
· Technical sheet	192
· Complete range	208
<b>Rocker switches</b>	<b>225</b>
· Technical sheet	226
· Complete range	251
<b>Steering column switches</b>	<b>287</b>
· Technical sheet	288
· Complete range	299
<b>Battery switches</b>	<b>345</b>
· Technical sheet	346
· Complete range	356
<b>Emergency switches</b>	<b>361</b>
· Technical sheet	362
· Complete range	369
<b>Miscellaneous</b>	<b>387</b>
<b>Workshop &amp; warehouse supplies and PPE</b>	<b>391</b>

<b>Over TVH</b>	<b>I</b>
<b>Inhoudstafel</b>	<b>A</b>
· Engels/Nederlands	A
· Frans/Duits	B
· Spaans/Portugees	C
· Italiaans/Pools	D
· Russisch	E
<b>Goed om te weten</b>	<b>1</b>
· Goed om te weten	2
<b>Microschakelaars</b>	<b>5</b>
· Technische fiche	6
· Microschakelaars 1 stuk	17
· Microschakelaars 2 stuks	79
· Microschakelaars 3 stuks	87
· Microschakelaars 4 stuks	93
· Microschakelaars 5 stuks	95
<b>Eindschakelaars</b>	<b>97</b>
· Technische fiche	98
· Eindschakelaars 1 stuk	109
· Eindschakelaars 2 stuks	185
<b>Tuimelschakelaars</b>	<b>191</b>
· Technische fiche	192
· Compleet gamma	208
<b>Wipschakelaars</b>	<b>225</b>
· Technische fiche	226
· Compleet gamma	251
<b>Stuurkolomschakelaars</b>	<b>287</b>
· Technische fiche	288
· Compleet gamma	299
<b>Batterischakelaars</b>	<b>345</b>
· Technische fiche	346
· Compleet gamma	356
<b>Noodstopschakelaars</b>	<b>361</b>
· Technische fiche	362
· Compleet gamma	369
<b>Diversen</b>	<b>387</b>
<b>Magazijn-, werkplaatsbenodigdheden en PBM</b>	<b>391</b>

# TABLE OF CONTENTS



<b>À propos de TVH</b>	<b>I</b>	<b>Über TVH</b>	<b>I</b>
<b>Table des matières</b>	<b>A</b>	<b>Inhaltsverzeichnis</b>	<b>A</b>
- Anglais/Néerlandais .....	A	- Englisch/Niederländisch .....	A
- Français/Allemand .....	B	- Französisch/Deutsch .....	B
- Espagnol/Portugais .....	C	- Spanisch/Portugiesisch .....	C
- Italien/Polonais .....	D	- Italienisch/Polnisch .....	D
- Russe .....	E	- Russisch .....	E
<b>Bon à savoir</b>	<b>1</b>	<b>Gut zu wissen</b>	<b>1</b>
- Bon à savoir .....	2	- Gut zu wissen .....	2
<b>Microrupteurs</b>	<b>5</b>	<b>Mikroschalter</b>	<b>5</b>
- Fiche technique .....	6	- Technisches Datenblatt .....	6
- Microrupteurs 1 pièce .....	17	- Mikroschalter 1 Stück .....	17
- Microrupteurs 2 pièces .....	79	- Mikroschalter 2 Stück .....	79
- Microrupteurs 3 pièces .....	87	- Mikroschalter 3 Stück .....	87
- Microrupteurs 4 pièces .....	93	- Mikroschalter 4 Stück .....	93
- Microrupteurs 5 pièces .....	95	- Mikroschalter 5 Stück .....	95
<b>Interrupteurs de fin de course</b>	<b>97</b>	<b>Endschalter</b>	<b>97</b>
- Fiche technique .....	98	- Technisches Datenblatt .....	98
- Interrupteurs de fin de course 1 pièce .....	109	- Endschalter 1 Stück .....	109
- Interrupteurs de fin de course 2 pièces .....	185	- Endschalter 2 Stück .....	185
<b>Interrupteurs à levier</b>	<b>191</b>	<b>Kippschalter</b>	<b>191</b>
- Fiche technique .....	192	- Technisches Datenblatt .....	192
- Gamme complète .....	208	- Vollständiges Sortiment .....	208
<b>Interrupteurs à bascule</b>	<b>225</b>	<b>Wippschalter</b>	<b>225</b>
- Fiche technique .....	226	- Technisches Datenblatt .....	226
- Gamme complète .....	251	- Vollständiges Sortiment .....	251
<b>Commutateurs de colonne de direction</b>	<b>287</b>	<b>Lenksäulenschalter</b>	<b>287</b>
- Fiche technique .....	288	- Technisches Datenblatt .....	288
- Gamme complète .....	299	- Vollständiges Sortiment .....	299
<b>Interrupteurs de batterie</b>	<b>345</b>	<b>Batterieschalter</b>	<b>345</b>
- Fiche technique .....	346	- Technisches Datenblatt .....	346
- Gamme complète .....	356	- Vollständiges Sortiment .....	356
<b>Boutons d'arrêt d'urgence</b>	<b>361</b>	<b>Notschalter</b>	<b>361</b>
- Fiche technique .....	362	- Technisches Datenblatt .....	362
- Gamme complète .....	369	- Vollständiges Sortiment .....	369
<b>Divers</b>	<b>387</b>	<b>Sonstige</b>	<b>387</b>
<b>Fournitures d'atelier, d'entrepôt et EPI</b>	<b>391</b>	<b>Werkstatt- &amp; Lagerbedarf und PSA</b>	<b>391</b>

# TABLE OF CONTENTS



<b>Acerca de TVH .....</b>	<b>I</b>
<b>Índice .....</b>	<b>A</b>
· Inglés/Neerlandés .....	A
· Francés/Alemán .....	B
· Español/Portugués .....	C
· Italiano/Polaco .....	D
· Ruso .....	E
<b>¿Sabía que...? .....</b>	<b>1</b>
· ¿Sabía que...? .....	2
<b>Microinterruptores .....</b>	<b>5</b>
· Hoja técnica .....	6
· Microinterruptores 1 pieza .....	17
· Microinterruptores 2 piezas .....	79
· Microinterruptores 3 piezas .....	87
· Microinterruptores 4 piezas .....	93
· Microinterruptores 5 piezas .....	95
<b>Interruptores de límite .....</b>	<b>97</b>
· Hoja técnica .....	98
· Interruptores de límite 1 pieza .....	109
· Interruptores de límite 2 piezas .....	185
<b>Interruptores de palanca .....</b>	<b>191</b>
· Hoja técnica .....	192
· Gama completa .....	208
<b>Interruptores basculantes .....</b>	<b>225</b>
· Hoja técnica .....	226
· Gama completa .....	251
<b>Interruptores de la columna de dirección .....</b>	<b>287</b>
· Hoja técnica .....	288
· Gama completa .....	299
<b>Interruptores de batería .....</b>	<b>345</b>
· Hoja técnica .....	346
· Gama completa .....	356
<b>Interruptores de emergencia .....</b>	<b>361</b>
· Hoja técnica .....	362
· Gama completa .....	369
<b>Otros .....</b>	<b>387</b>
<b>Suministros de taller y almacén y EPI .....</b>	<b>391</b>

<b>Sobre a TVH .....</b>	<b>I</b>
<b>Índice .....</b>	<b>A</b>
· Inglês/Holandês .....	A
· Francês/Alemão .....	B
· Espanhol/Português .....	C
· Italiano/Polonês .....	D
· Russo .....	E
<b>Bom saber .....</b>	<b>1</b>
· Bom saber .....	2
<b>Microinterruptores .....</b>	<b>5</b>
· Ficha técnica .....	6
· Interruptores 1 peça .....	17
· Interruptores 2 peças .....	79
· Interruptores 3 peças .....	87
· Interruptores 4 peças .....	93
· Interruptores 5 peças .....	95
<b>Interruptor fim de curso .....</b>	<b>97</b>
· Ficha técnica .....	98
· Interruptor fim de curso 1 peça .....	109
· Interruptores fim de curso 2 peças .....	185
<b>Interruptores de alternância .....</b>	<b>191</b>
· Ficha técnica .....	192
· Gama completa .....	208
<b>Interruptores basculantes .....</b>	<b>225</b>
· Ficha técnica .....	226
· Gama completa .....	251
<b>Interruptores de coluna de direção .....</b>	<b>287</b>
· Ficha técnica .....	288
· Gama completa .....	299
<b>Interruptores de bateria .....</b>	<b>345</b>
· Ficha técnica .....	346
· Gama completa .....	356
<b>Interruptores de emergência .....</b>	<b>361</b>
· Ficha técnica .....	362
· Gama completa .....	369
<b>Vários .....</b>	<b>387</b>
<b>Material de oficina &amp; armazém e PPE .....</b>	<b>391</b>

# TABLE OF CONTENTS



<b>A proposito di TVH</b>	<b>I</b>	<b>O TVH</b>	<b>I</b>
<b>Indice</b>	<b>A</b>	<b>Spis treści</b>	<b>A</b>
- Inglese/Olandese	A	- Angielski/Holenderski	A
- Francese/Tedesco	B	- Francuski/Niemiecki	B
- Spagnolo/Portoghese	C	- Hiszpański/Portugalski	C
- Italiano/Polacco	D	- Włoski/Polski	D
- Russo	E	- Rosyjski	E
<b>Utile da sapere</b>	<b>1</b>	<b>Dobrze wiedzieć</b>	<b>1</b>
- Utile da sapere	2	- Dobrze wiedzieć	2
<b>Microinterruttori</b>	<b>5</b>	<b>Mikroprzełączniki</b>	<b>5</b>
- Scheda tecnica	6	- Formularz techniczny	6
- Microinterruttori 1 pezzo	17	- Mikroprzełączniki 1 sztuka	17
- Microinterruttori 2 pezzi	79	- Mikroprzełączniki 2 sztuki	79
- Microinterruttori 3 pezzi	87	- Mikroprzełączniki 3 sztuki	87
- Microinterruttori 4 pezzi	93	- Mikroprzełączniki 4 sztuki	93
- Microinterruttori 5 pezzi	95	- Mikroprzełączniki 5 sztuk	95
<b>Interruttori di fine corsa</b>	<b>97</b>	<b>Wyłączniki krańcowe</b>	<b>97</b>
- Scheda tecnica	98	- Formularz techniczny	98
- Interruttori di fine corsa 1 pezzo	109	- Wyłączniki krańcowe 1 sztuka	109
- Interruttori di fine corsa 2 pezzi	185	- Wyłączniki krańcowe 2 sztuki	185
<b>Interruttori a levetta</b>	<b>191</b>	<b>Przełączniki</b>	<b>191</b>
- Scheda tecnica	192	- Formularz techniczny	192
- Gamma completa	208	- Pełna gama	208
<b>Interruttori a bilanciere</b>	<b>225</b>	<b>Przełączniki kotyskowe</b>	<b>225</b>
- Scheda tecnica	226	- Formularz techniczny	226
- Gamma completa	251	- Pełna gama	251
<b>Interruttori piantone sterzo</b>	<b>287</b>	<b>Przełączniki kolumny kierownicy</b>	<b>287</b>
- Scheda tecnica	288	- Formularz techniczny	288
- Gamma completa	299	- Pełna gama	299
<b>Interruttori per batterie</b>	<b>345</b>	<b>Przełączniki do baterii</b>	<b>345</b>
- Scheda tecnica	346	- Formularz techniczny	346
- Gamma completa	356	- Pełna gama	356
<b>Interruttori d'arresto di emergenza</b>	<b>361</b>	<b>Wyłączniki awaryjne</b>	<b>361</b>
- Scheda tecnica	362	- Formularz techniczny	362
- Gamma completa	369	- Pełna gama	369
<b>Varie</b>	<b>387</b>	<b>Różne produkty</b>	<b>387</b>
<b>Forniture per officina &amp; magazzino e DPI</b>	<b>391</b>	<b>Materiały warsztatowe i magazynowe oraz środki ochrony osobistej</b>	<b>391</b>

# TABLE OF CONTENTS



<b>Кратко о TVH</b>	<b>I</b>
<b>Оглавление</b>	<b>A</b>
· Английский/Голландский	A
· Французский/Немецкий	B
· Испанский/Португальский	C
· Итальянский/Польский	D
· Русский	E
<b>Полезно знать</b>	<b>1</b>
· Полезно знать	2
<b>Микропереключатели</b>	<b>5</b>
· Технические данные	6
· Микропереключатели 1 шт.	17
· Микропереключатели 2 шт.	79
· Микропереключатели 3 шт.	87
· Микропереключатели 4 шт.	93
· Микропереключатели 5 шт.	95
<b>Концевые выключатели</b>	<b>97</b>
· Технические данные	98
· Концевые выключатели 1 шт.	109
· Концевые выключатели 2 шт.	185
<b>Рычажные переключатели</b>	<b>191</b>
· Технические данные	192
· Полный ассортимент	208
<b>Клавишные переключатели</b>	<b>225</b>
· Технические данные	226
· Полный ассортимент	251
<b>Переключатели рулевых колонок</b>	<b>287</b>
· Технические данные	288
· Полный ассортимент	299
<b>Аккумуляторные переключатели</b>	<b>345</b>
· Технические данные	346
· Полный ассортимент	356
<b>Аварийные переключатели</b>	<b>361</b>
· Технические данные	362
· Полный ассортимент	369
<b>Прочее</b>	<b>387</b>
<b>Материалы для мастерских и складов, СИЗ</b>	<b>391</b>

РУССКИЙ

# TABLE OF CONTENTS



NOTES

## NOTES

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NICE TO KNOW



## SWITCHES

A switch is an electromechanical device. It contains an actuator that's mechanically linked to a set of contact points. When an object comes into contact with the actuator, the device operates the contacts to make or break an electrical connection.



Our electronics department, which is responsible for quality, performs exhaustive tests to ensure your machine will function perfectly.

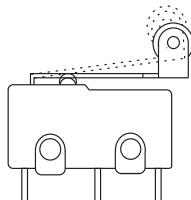
Crouzet Switches chose TVH Parts to be their official distributor for the Benelux region based on the enormous logistics platform TVH offers. You benefit from faster delivery, as well as the possibility of having switches adapted to your unique needs.

### In this catalogue you'll find:

- microswitches
- limit switches
- toggle switches
- rocker switches
- steering column switches
- battery switches
- emergency switches
- miscellaneous switches (foot switches, push switches, pull switches, rotary switches, cam switches)

In fact, the range of switches we supply at TVH is so extensive, we can't squeeze it all into one catalogue. Are you looking for something that's not here? Just contact our sales team. They will be happy to help you.

### Microswitches



Microswitches are present in almost everything you see. They play an essential role in the function of tiller heads, steering column switches, seats, control panels, foot pedals and any number of other applications ...

Our microswitches are high-precision, snap-action microswitches. They are renowned for:

- their high ratings and small dimensions
- very short travel
- low operating force
- high reliability of travel and force values
- long life
- offering a large range of actuators for easy adaptation to a wide variety of applications

TVH is the official distributor of **Crouzet Switches** in Europe. Of course, we also stock other brands with the same great price-quality ratio.

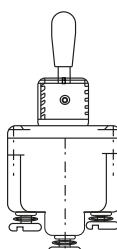
### Limit switches



A limit switch is operated by the motion of a machine part or the presence of an object that trips it. Limit switches are used for controlling machinery as part of a control system, as a safety interlock, or to count objects as they pass a specific point.

Just like microswitches, limit switches are everyday switches installed all over the world in all types of industrial machinery.

### Toggle switches



A toggle switch - or tumbler switch - is an electrical switch that is manually operated by a mechanical lever, handle, or rocking mechanism.

A 'toggle switch' is any switch with a short handle and a positive snap-action, whether it actually contains a toggle mechanism or not.



## SWITCHES

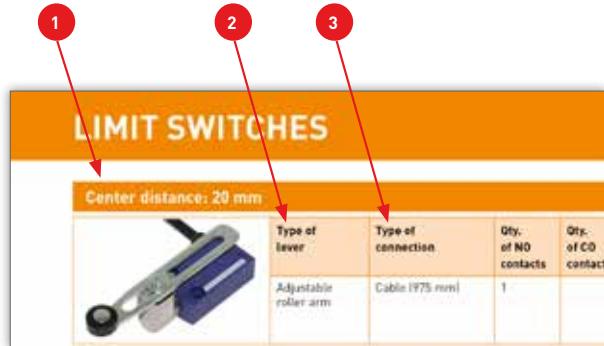
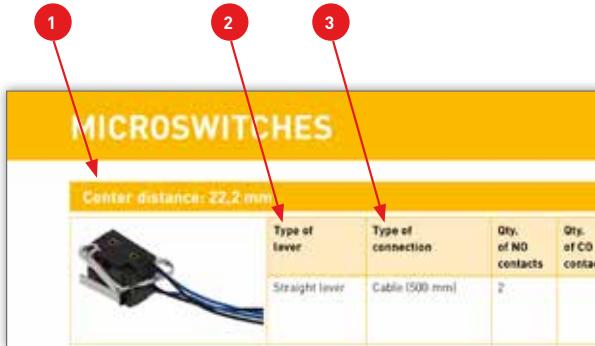
<b>Rocker switches</b>	<p>A rocker switch is a switch that rocks from one side to the other when you press it; one side is raised and the other side is depressed. The reason for the name? This motion is considered to be a lot like the back-and-forth movement of a rocking horse.</p> <p>There may be a circle (indicating 'off') at one end of a rocker switch, and a vertical line (indicating 'on') at the other to let you know whether the device is turned 'on' or 'off'. Of course, there are many other different ways this is shown.</p> <p>A rocker switch with independent circuitry may have a light activated on the face of the switch in both the 'on' and 'off' positions. This is perfect for light switches; it's wonderfully convenient for finding them in the dark.</p>
<b>Steering column switches</b>	<p>With their compact design and integrated mounting brackets, steering column switches are ideal for installation directly into the steering column of a vehicle or of machinery.</p> <p>Steering column switches are most commonly used for indicators, wiper unit actuators, switches for headlights, for the horn and a number of other applications.</p>
<b>Battery switches</b>	<p>Battery disconnect switches are used to connect or disconnect electrical devices from an electrical system. They help prevent battery drain when the battery is not being used.</p> <p>Please note: It's important that your battery switch has the correct voltage and amperage. If not, you might unintentionally supercharge your battery switch.</p>
<b>Emergency switches</b>	<p>An emergency switch, also known as a 'kill switch', is a safety mechanism used to shut down machinery in emergency situations. They quickly disconnect batteries and other power supplies in the event of electrical faults. Most of our emergency switches are intended for use with battery-powered vehicles, but we also have emergency switches suitable for use with static power systems.</p> <p>Are you replacing an old emergency switch? Make sure you have the piece you need. The part number is on the label on the switch. Please contact our Sales department for any special requests or questions.</p>
<b>Miscellaneous</b>	<p>Are you looking for something that you cannot find? We have so many other switches in our range, we can't describe them all in this catalogue. Whether it's one of the switch types we have already covered, or a push button, foot, rotary, cam or pull switch, please contact our Sales department. You'll have what you need before you know it.</p>
<b>Workshop supplies, warehouse supplies and personal protective equipment (PPE)</b>	<p>Everything you need to make your workplace or workshop safe for everyone who sets foot inside. From spill control to personal care and cleaning products, you'll be able to operate with ultimate safety and the efficiency that keeps your business booming.</p>

## SWITCHES

### Structure of the catalogue

In this catalog, the micro switches and limit switches are sorted by:

1. Centre distance: the distance between two mounting holes
2. Type of lever: straight lever, simulated lever, roller lever, ...
3. Type of connection: solder or screw connection, faston, cable, pin,...



In addition to these three mentioned specifications, the type of contact is also very important:

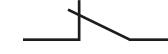
#### NO/NC/CO:

- NO contact: normally open
- NC contact: normally closed
- CO contact: change over

normally open

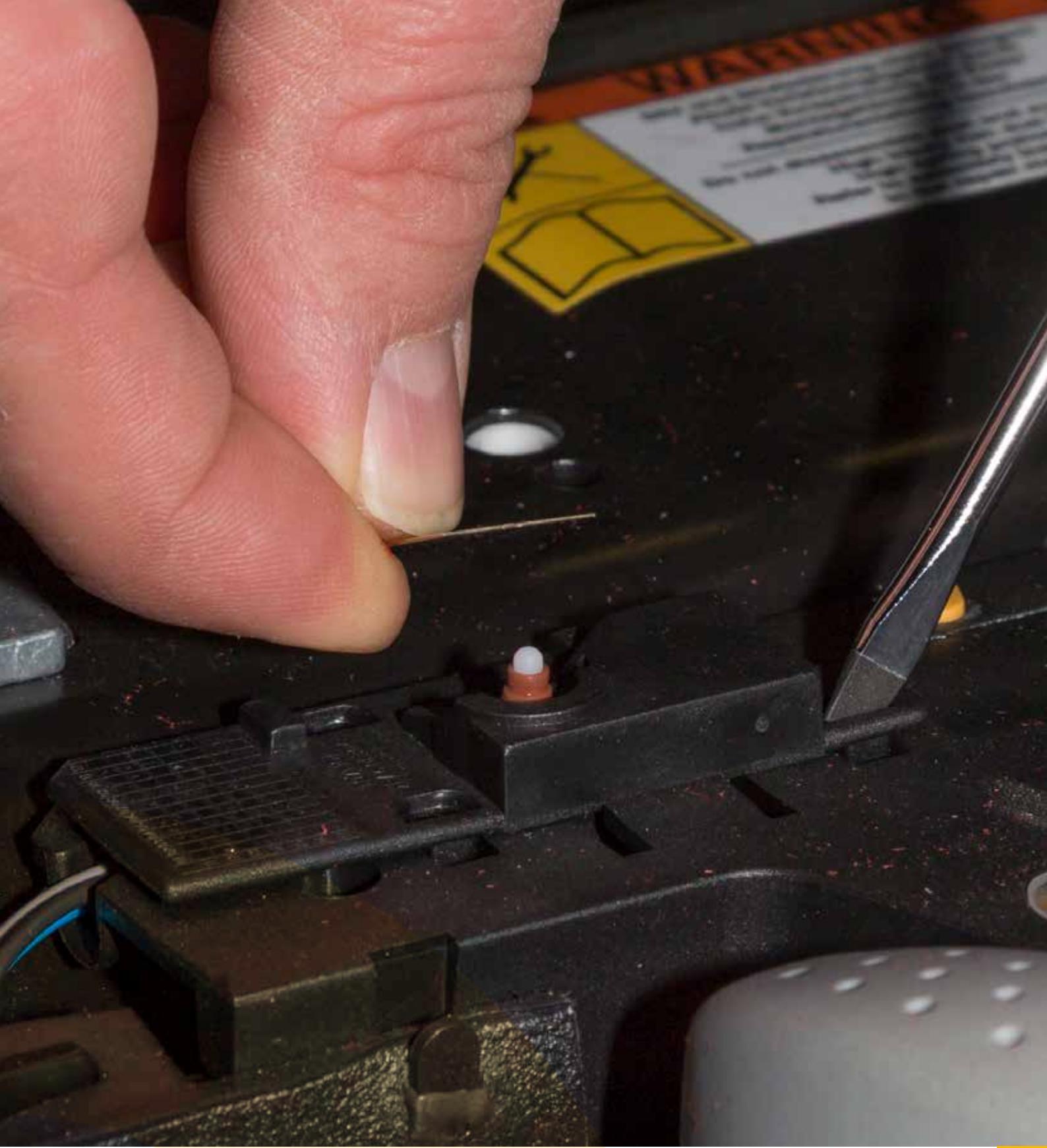


normally closed



change over





# MICROSWITCHES



## TECHNICAL SHEET



## TECHNICAL SHEET

**MICROSWITCH**

Group

**02-03-05-00**

Example



Customer details

Type of machine: .....

Price inquiry

Serial n° machine: .....

Order

AT-AS ..... Number of connections

TY-AS ..... Type of connection:

A = solder connection

B = screw connection

C = covered screw connection

D = 2,8 mm FASTON

E = 4,75 mm FASTON

F = 6,35 mm FASTON

G = cable

H = cable with connector

I = printed circuit board pin

J = pin

S = special

If different types combined, sort alphabetically

AT-NO ..... Number of normally open contacts (NO)

AT-NC ..... Number of normally closed contacts (NC)

AT-CO ..... Number of change-over contacts (CO)

AT-BG ..... Number of connection holes

(if connection holes are used for assembly: AT-BG = 0)

# MICROSWITCHES



## TECHNICAL SHEET

MICROSWITCHES

C ..... Centre distance:

A = 4,8 mm

B = 7,0 mm

C = 9,5 mm

D = 13,2 mm

E = 15,9 mm

F = 17,0 mm

G = 17,45 mm

H = 19,0 mm

I = 22,2 mm

J = 25,4 mm

K = 26,6 mm

L = 28,0 mm

M = 30,0 mm

N = 32,8 mm

O = 54,0 mm

S = speciaal

Combinations possible, use in increasing order

If slot mounting, use biggest length

MAT1 ..... Material of the housing:

KS = plastic

M = metal

RB = rubber

TY-HB ..... Type of lever:

A = pin plunger

B = panel mount plunger

C = straight lever

D = long straight lever

E = simulated lever

F = long simulated lever

G = roller lever

H = long roller lever

I = roller plunger

J = flexible rod

S = special

MAT2 ..... Material of the roller:

KS = plastic

M = metal

POS-ROL ..... Position of the roller:

S = standard

G = turned 90°

D ..... Diameter of the roller

I ..... Current

L ..... Length of the cable, if present

AT-SCH ..... Number of switches



### TECHNICAL SHEET

#### TY-AS: TYPE OF CONNECTION

**Type A**  
Solder connection



**Type B**  
Screw connection



**Type C**  
Covered screw connection



**Type D**  
2,8 mm FASTON



**Type E**  
4,75 mm FASTON



**Type F**  
6,35 mm FASTON



**Type G**  
Cable



**Type H**  
Cable with connector



**Type I**  
Printed circuit board pin



**Type J**  
Pin



**Type S**  
Special



## TECHNICAL SHEET

### TY-HB: TYPE OF LEVER

**Type A**  
Pin plunger



**Type B**  
Panel mount plunger



**Type C**  
Straight lever



**Type D**  
Long straight lever



**Type E**  
Simulated lever



**Type F**  
Long simulated lever



**Type G**  
Roller lever



**Type H**  
Long roller lever



**Type I**  
Roller plunger



**Type J**  
Flexible rod



**Type S**  
Special



### TECHNICAL SHEET

#### POS-ROL: POSITION OF THE ROLLER

Type S  
Standard



Type G  
Turned 90°





## TECHNICAL SHEET



## TECHNISCHE FICHE

### MICROSCHAKELAAR

Groep  
**02-03-05-00**

Voorbeeld



Gegevens klant

Type machine: .....

Prijsaanvraag

Serienr. machine: .....

Bestelling

AT-AS ..... Aantal aansluitingen of draden

TY-AS ..... Type aansluitingen:

A = soldeeraansluiting

B = schroefaansluiting

C = schroefaansluiting gedekt

D = 2,8 mm FASTON

E = 4,75 mm FASTON

F = 6,35 mm FASTON

G = kabel

H = kabel met connector

I = printmontage

J = pin

S = speciaal

Indien combinatie van verschillende types, sorteer alfabetisch

AT-NO ..... Aantal normaal open contacten (NO)

AT-NC ..... Aantal normaal gesloten contacten (NC)

AT-CO ..... Aantal wisselcontacten (CO)

AT-BG ..... Aantal bevestigingsgaten/montagepinnen (indien de bevestigingsgaten reeds  
gebruikt zijn in een samenbouw: AT-BG = 0)

# MICROSWITCHES



## TECHNICAL SHEET

C ..... Centerafstand tussen bevestigingsgaten of montagepinnen:

A = 4,8 mm

B = 7,0 mm

C = 9,5 mm

D = 13,2 mm

E = 15,9 mm

F = 17,0 mm

G = 17,45 mm

H = 19,0 mm

I = 22,2 mm

J = 25,4 mm

K = 26,6 mm

L = 28,0 mm

M = 30,0 mm

N = 32,8 mm

O = 54,0 mm

S = speciaal

Combinatie mogelijk, de diverse mogelijkheden opsommen in oplopende volgorde

Bij sleufmontage, altijd de grootste afstand nemen

MAT1 ..... Materiaal van de behuizing:

KS = kunststof

M = metaal

RB = rubber

TY-HB ..... Type bediening:

A = pin plunjер

B = plunjер met paneelbevestiging

C = hefboom

D = lange hefboom

E = gesimuleerde hefboom

F = lange gesimuleerde hefboom

G = hefboom met roller

H = lange hefboom met roller

I = roller plunjер

J = flexibele stang

S = speciaal

MAT2 ..... Materiaal van de roller:

KS = kunststof

M = metaal

POS-ROL ..... Positie van de roller:

S = standaard

G = 90° gedraaid

D ..... Diameter van de roller

I ..... Stroom

L ..... Lengte van de kabel, indien aanwezig

AT-SCH ..... Aantal microschakelaars



## TECHNICAL SHEET



## FICHE TECHNIQUE

### MICRORUPTEUR

Groupe

**02-03-05-00**

Exemple



Données client

Type machine : .....

Demande de prix

No. série machine : .....

Commande

AT-AS ..... Nombre de connexions ou de fils

TY-AS ..... Type de connexions :

A = connexion à souder

B = connexion à vis

C = connexion à vis couverte

D = 2,8 mm FASTON

E = 4,75 mm FASTON

F = 6,35 mm FASTON

G = câble

H = câble avec fiche

I = montage circuit imprimé

J = axe

S = spécial

En cas de combinaison de différents types, trier alphabétiquement

AT-NO ..... Nombre de contacts Normalement Ouverts (NO)

AT-NC ..... Nombre de contacts Normalement Fermés (NC)

AT-CO ..... Nombre de contacts Inverseurs (CO)

AT-BG ..... Nombre de trous de fixation/chevilles de montage  
(si les trous de fixation sont utilisés dans une construction, AT-BG = 0)

# MICROSWITCHES



## TECHNICAL SHEET

C ..... Entraxe entre les trous de fixation ou les chevilles de montage :

A = 4,8 mm

B = 7,0 mm

C = 9,5 mm

D = 13,2 mm

E = 15,9 mm

F = 17,0 mm

G = 17,45 mm

H = 19,0 mm

I = 22,2 mm

J = 25,4 mm

K = 26,6 mm

L = 28,0 mm

M = 30,0 mm

N = 32,8 mm

O = 54,0 mm

S = speciaal

Combinaison possible, inscrire les différentes possibilités dans l'ordre alphabétique. Pour montage avec rainure, prendre la plus grande distance

MAT1 ..... Matière du boîtier :

KS = plastique

M = métal

RB = caoutchouc

TY-HB ..... Type de commande :

A = bouton

B = montage sur panneau

C = levier

D = levier long

E = galet simulé

F = galet simulé long

G = levier à galet

H = levier à galet long

I = bouton a galet

J = tige oscillante

S = spécial

MAT2 ..... Matière du galet :

KS = plastique

M = métal

POS-ROL ..... Position du galet :

S = standard

G = tourné à 90°

D ..... Diamètre du galet

I ..... Ampèrage

L ..... Longueur du câble, si présent

AT-SCH ..... Nombre de microrupteurs



## TECHNICAL SHEET



## TECHNISCHES DATENBLATT

### MICROSCHALTER

Gruppe  
**02-03-05-00**

Beispiel



Kundendaten

Maschinentyp: .....

Preisanfrage

Serien-Nr. Maschine: .....

Bestellung

AT-AS ..... Anzahl der Anschlüsse

TY-AS ..... Art der Anschlüsse:

A = Lötverbindung

B = Schraubanschluss

C = verdeckter Schraubanschluss

D = 2,80 mm FASTON

E = 4,75 mm FASTON

F = 6,35 mm FASTON

G = Kabel

H = Kabel mit Steckverbindung

I = PCB Kontaktstift

J = Kontaktstift

S = Spezial

Wenn verschiedene Typen kombiniert sind, sortieren Sie alfabetisch

AT-NO ..... Anzahl der normal offenen Kontakten (NO)

AT-NC ..... Anzahl der normal geschlossenen Kontakten (NC)

AT-CO ..... Anzahl der COkontakte (CO)

AT-BG ..... Anzahl Befestigungslöcher

(Wenn die Befestigungslöcher schon belegt sind: AT-BG = 0)

# MICROSWITCHES



## TECHNICAL SHEET

C ..... Mittenabstand der Befestigungslöcher:

A = 4,8 mm

B = 7,0 mm

C = 9,5 mm

D = 13,2 mm

E = 15,9 mm

F = 17,0 mm

G = 17,45 mm

H = 19,0 mm

I = 22,2 mm

J = 25,4 mm

K = 26,6 mm

L = 28,0 mm

M = 30,0 mm

N = 32,8 mm

O = 54,0 mm

S = speciaal

Kombinationen möglich, bitte geben Sie die Kombination steigend an

Bei Nutbefestigung, geben Sie bitte die größte Länge an

MAT1 ..... Material vom Gehäuse:

KS = Kunststoff

M = Metall

RB = Gummi

TY-HB ..... Art der Handhabung:

A = Pin Plugner

B = Panel Plunger

C = Hebel

D = langer Hebel

E = simulierter Hebel

F = langer simulierter Hebel

G = Rollhebel

H = langer Rollhebel

I = Rollplunger

J = flexibler Hebel

S = Spezial

MAT2 ..... Material of roller:

KS = Kunststoff

M = Metall

POS-ROL .... Position der Rolle:

S = Standard

G = 90° gedreht

D ..... Rollendurchmesser

I ..... Stromstärke

L ..... Länge des kabels falls vorhanden

AT-SCH ..... Anzahl Schalter

# MICROSWITCHES



MICROSWITCHES

**Centre distance: 4,8 mm**

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	2,8 mm FASTON		1		5	<a href="#">146TA3763</a>
Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Straight lever	Solder connection		1		0,1	<a href="#">145TA9646</a>
Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Straight lever	Solder connection		1		0,1	<a href="#">151TA2266</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 9,5 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	Solder connection		1		10	<a href="#">146TA1468</a>
Long roller lever	Cable with connector (110 mm)			1	10	<a href="#">146TA1369</a>
Long roller lever	Cable with connector (330 mm)	1			1,5	<a href="#">151TA1483</a>
Long roller lever	Cable with connector (1300 mm)	1			6	<a href="#">145TA9758</a>
Long roller lever	PCB pin		1		5	<a href="#">145TA9481</a>
Long roller lever	PCB pin		1		5	<a href="#">145TA9589</a>
Long roller lever	Solder connection		1		0,1	<a href="#">145TA9678</a>
Long roller lever	Solder connection		1		3	<a href="#">146TA1068</a>

# MICROSWITCHES

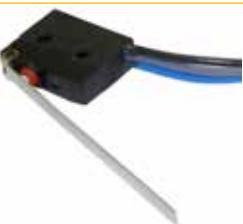
Centre distance: 9,5 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	Solder connection		1		3	<a href="#">146TA1204</a>
Long roller lever	Solder connection		1		10	<a href="#">146TA1076</a>
Long simulated lever	2,8 mm FASTON		1		3	<a href="#">164TA9816</a>
Long simulated lever	Cable (500 mm)		1		5	<a href="#">146TA1531</a>
Long simulated lever	Cable (500 mm)		1		5	<a href="#">145TA9480</a>
Long simulated lever	Cable with connector (420 mm)		1		5	<a href="#">161TA7383</a>
Long simulated lever	PCB pin		1		1	<a href="#">146TA1388</a>
Long simulated lever	PCB pin		1		6	<a href="#">145TA9568</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 9,5 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Long straight lever	Cable (510 mm)		1		6	<a href="#">145TA9680</a>
	Long straight lever	Cable with connector (145 mm)		1		6	<a href="#">145TA9752</a>
	Long straight lever	Cable with connector (225 mm)		1		6	<a href="#">146TA1154</a>
	Long straight lever	Cable with connector (510 mm)	1			5	<a href="#">161TA7337</a>
	Long straight lever	Solder connection		1		3	<a href="#">145TA9672</a>
	Panel mount plunger	2,8 mm FASTON		1		5	<a href="#">145TA9754</a>
	Pin plunger	Cable (300 mm)		1			<a href="#">146TA1356</a>
	Pin plunger	Solder connection		1		3	<a href="#">145TA9685</a>

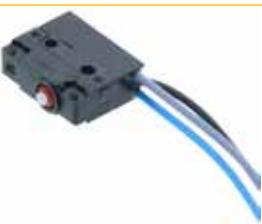
# MICROSWITCHES

Centre distance: 9,5 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Solder connection		1		5	<a href="#">146TA1431</a>
Pin plunger	Solder connection		1		5	<a href="#">164TA9827</a>
Pin plunger	Cable with connector (175 mm)			1	10	<a href="#">145TA7790</a>
Pin plunger	Cable (500 mm)		1		5	<a href="#">146TA1178</a>
Pin plunger	Cable (500 mm)		1		6	<a href="#">145TA9843</a>
Pin plunger	Cable (510 mm)		1		6	<a href="#">146TA1432</a>
Pin plunger	Cable (510 mm)	1			5	<a href="#">146TA1031</a>
Pin plunger	Cable (510 mm)		1		0,1	<a href="#">145TA9497</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 9,5 mm							
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Cable (510 mm)		1		5	<a href="#">145TA9591</a>
	Pin plunger	Cable (535 mm)		1		5	<a href="#">145TA9561</a>
	Pin plunger	Cable (560 mm)		1		6	<a href="#">164TA9854</a>
	Pin plunger	Cable with connector (48 mm)	1			5	<a href="#">146TA1485</a>
	Pin plunger	Cable with connector (80 mm)	2			5	<a href="#">146TA1530</a>
	Pin plunger	Cable with connector (83 mm)		1		5	<a href="#">145TA9783</a>
	Pin plunger	Cable with connector (175 mm)	1			5	<a href="#">145TA9529</a>
	Pin plunger	Cable with connector (240 mm)	1			5	<a href="#">146TA1094</a>

# MICROSWITCHES

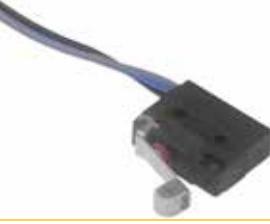
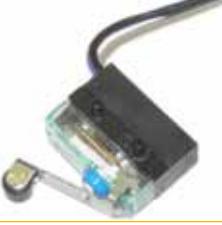
Centre distance: 9,5 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Cable with connector (242 mm)	1			5	<a href="#">161TA7667</a>
Pin plunger	Cable with connector (305 mm)	1			6	<a href="#">146TA1381</a>
Pin plunger	Cable with connector (305 mm)		1		6	<a href="#">161TA7777</a>
Pin plunger	Cable with connector (350 mm)		2		5	<a href="#">161TA7677</a>
Pin plunger	Solder connection		1		5	<a href="#">145TA9545</a>
Pin plunger	PCB pin		1		5	<a href="#">145TA9571</a>
Pin plunger	Solder connection		1		6	<a href="#">146TA1304</a>
Pin plunger	Solder connection		1		6	<a href="#">146TA1200</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 9,5 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Solder connection		1		6	<a href="#">146TA1382</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	Cable (510 mm)		1		5	<a href="#">145TA9489</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	Cable (514 mm)		1			<a href="#">146TA6862</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	Cable (1170 mm)		1		1	<a href="#">146TA1469</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	Cable with connector (155 mm)		1		5	<a href="#">145TA9902</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	Cable with connector (200 mm)		1		5	<a href="#">146TA1320</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	Cable with connector (325 mm)		1		5	<a href="#">146TA1267</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	Cable with connector (330 mm)	1			1,5	<a href="#">146TA1363</a>

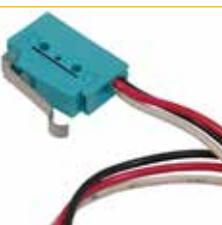
# MICROSWITCHES

Centre distance: 9,5 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Roller lever	Cable with connector (370 mm)		1			<a href="#">145TA9488</a>
Roller lever	Cable with connector (395 mm)		1		5	<a href="#">109TA4010</a>
Roller lever	Cable with connector (400 mm)			1	5	<a href="#">145TA9624</a>
Roller lever	Cable with connector (520 mm)		1		5	<a href="#">146TA1118</a>
Roller lever	PCB pin		1		5	<a href="#">145TA9556</a>
Roller lever	PCB pin		1		5	<a href="#">145TA9555</a>
Roller lever	PCB pin	1				<a href="#">145TA9391</a>
Roller lever	Solder connection		1		6	<a href="#">145TA9592</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 9,5 mm							
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	PCB pin		1		6	<a href="#">145TA9534</a>
	Roller lever	PCB pin		1			<a href="#">146TA9641</a>
	Simulated lever	Cable (295 mm)		1		2	<a href="#">164TA9812</a>
	Simulated lever	Cable (305 mm)	1			6	<a href="#">146TA1115</a>
	Simulated lever	Cable (500 mm)		1		6	<a href="#">145TA9759</a>
	Simulated lever	Cable (505 mm)		1		6	<a href="#">145TA9971</a>
	Simulated lever	Cable (505 mm)		1		6	<a href="#">146TA1224</a>
	Simulated lever	Cable (1010 mm)		1		6	<a href="#">164TA9857</a>

# MICROSWITCHES

Centre distance: 9,5 mm

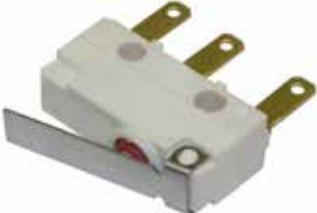
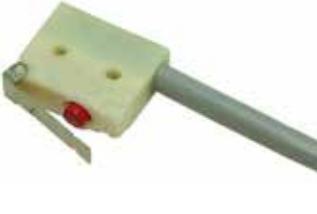
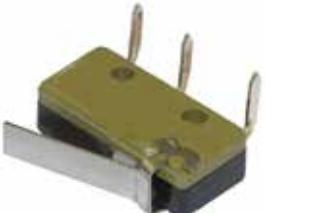
Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Simulated lever	Cable with connector (190 mm)		1		6	<a href="#">161TA7161</a>
Simulated lever	Cable with connector (380 mm)	1			6	<a href="#">161TA7287</a>
Simulated lever	PCB pin		1		6	<a href="#">145TA9563</a>
Simulated lever	PCB pin		1		6	<a href="#">145TA9674</a>
Simulated lever	PCB pin		1		6	<a href="#">145TA9491</a>
Simulated lever	PCB pin		1		6	<a href="#">145TA9476</a>
Simulated lever	PCB pin		1		15	<a href="#">145TA9485</a>
Special	Cable (300 mm)		1		0,1	<a href="#">146TA1097</a>

# MICROSWITCHES



## MICROSWITCHES

Centre distance: 9,5 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Straight lever	2,8 mm FASTON		1		5	<a href="#">146TA1303</a>
	Straight lever	Solder connection		1		5	<a href="#">145TA9526</a>
	Straight lever	Cable (1025 mm)		1		5	<a href="#">164TA9835</a>
	Straight lever	Cable (1090 mm)	1			5	<a href="#">146TA1082</a>
	Straight lever	PCB pin		1		6	<a href="#">146TA1213</a>
	Straight lever	Solder connection		1		10	<a href="#">146TA1023</a>

# MICROSWITCHES

Centre distance: 13,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	Cable with connector (125 mm)		1		6	<a href="#">164TA9859</a>
Pin plunger	2,8 mm FASTON	1		1	5	<a href="#">145TA9683</a>
Pin plunger	2,8 mm FASTON	1		1	5	<a href="#">146TA1050</a>
Pin plunger	2,8 mm FASTON	1		1	5	<a href="#">146TA1385</a>
Pin plunger	6,35 mm FASTON	1		1	5	<a href="#">106TA2525</a>
Pin plunger	6,35 mm FASTON	1		1	5	<a href="#">164TA9828</a>
Pin plunger	6,35 mm FASTON	1		1	5	<a href="#">164TA9829</a>
Pin plunger	Cable (1000 mm)			1	0,1	<a href="#">146TA1471</a>

# MICROSWITCHES

## MICROSWITCHES



Centre distance: 13,2 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Cable with connector (95 mm)	1			5	<a href="#">161TA7656</a>
	Pin plunger	Screw connection	1		1	5	<a href="#">145TA9852</a>
	Pin plunger	Screw connection	1		1	10	<a href="#">145TA9610</a>
	Pin plunger	Screw connection	1		1	10	<a href="#">146TA6781</a>
	Roller lever	6,35 mm FASTON	1		1	5	<a href="#">124TA1678</a>
	Special	Screw connection	1		1	5	<a href="#">146TA1103</a>

# MICROSWITCHES

**Centre distance: 15,9 mm**

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long straight lever	Cable with connector	1			5	<a href="#">146TA1038</a>
Pin plunger	Cable (250 mm)		1		10	<a href="#">145TA9597</a>
Pin plunger	Cable (1000 mm)			1	10	<a href="#">146TA1212</a>
Roller lever	Cable with connector (380 mm)		1		0,1	<a href="#">161TA7412</a>
Roller lever	Covered screw connection		1		10	<a href="#">146TA1218</a>

# MICROSWITCHES



## MICROSWITCHES

Centre distance: 15,9 mm + 25,4 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Long roller lever	6,35 mm FASTON		1		5	<a href="#">145TA9805</a>
	Long roller lever	Screw connection		1		5	<a href="#">146TA1098</a>

# MICROSWITCHES

Centre distance: 17,0 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	Cable with connector (300 mm)		1			<a href="#">145TA9629</a>
Long straight lever	Cable with connector (668 mm)		1			<a href="#">145TA9676</a>
Pin plunger	6,35 mm FASTON	1		1	10	<a href="#">145TA9615</a>
Roller lever	6,35 mm FASTON	1			3	<a href="#">146TA9435</a>
Roller lever	6,35 mm FASTON		1			<a href="#">151TA1477</a>
Roller lever	Covered screw connection		1		5	<a href="#">105TA4731</a>
Straight lever	Cable with connector (315 mm)		1			<a href="#">145TA9468</a>

# MICROSWITCHES



## MICROSWITCHES

Centre distance: 17,45 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Panel mount plunger	6,35 mm FASTON		1		10	<a href="#">145TA9642</a>
Pin plunger	6,35 mm FASTON	1		1	0,5	<a href="#">145TA9782</a>
Pin plunger	6,35 mm FASTON	1		1	0,5	<a href="#">146TA1443</a>
Pin plunger	6,35 mm FASTON	1		1	0,5	<a href="#">146TA1274</a>
Special	6,35 mm FASTON	1		1	0,5	<a href="#">145TA9602</a>
Special	6,35 mm FASTON	1			0,5	<a href="#">145TA9803</a>

# MICROSWITCHES



Centre distance: 19,0 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Cable with connector (80 mm)	1				<a href="#"><u>145TA9513</u></a>

# MICROSWITCHES

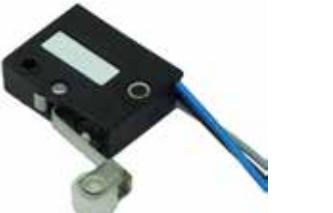
## MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	4,75 mm FASTON		1		5	<a href="#">145TA9735</a>
Long roller lever	4,75 mm FASTON		1		10	<a href="#">145TA9728</a>
Long roller lever	4,75 mm FASTON		1		15	<a href="#">145TA9616</a>
Long roller lever	4,75 mm FASTON		1		15	<a href="#">146TA1022</a>
Long roller lever	4,75 mm FASTON		1		15	<a href="#">145TA9572</a>
Long roller lever	6,35 mm FASTON		1		8	<a href="#">151TA1466</a>
Long roller lever	6,35 mm FASTON		1		10	<a href="#">145TA9673</a>
Long roller lever	6,35 mm FASTON		1		10	<a href="#">145TA9766</a>

# MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	6,35 mm FASTON		1		10	<a href="#">145TA9600</a>
	Type of lever Long roller lever	Type of connection 6,35 mm FASTON	Nº of NO contacts 1	Nº of CO contacts 1	Nº of NC contacts 10	REF <a href="#">145TA9583</a>
	Type of lever Long roller lever	Type of connection 6,35 mm FASTON	Nº of NO contacts 1	Nº of CO contacts 1	Nº of NC contacts 10	REF <a href="#">145TA9608</a>
	Type of lever Long roller lever	Type of connection 6,35 mm FASTON	Nº of NO contacts 1	Nº of CO contacts 1	Nº of NC contacts 15	REF <a href="#">145TA9974</a>
	Type of lever Long roller lever	Type of connection 6,35 mm FASTON	Nº of NO contacts 1	Nº of CO contacts 1	Nº of NC contacts 15	REF <a href="#">145TA9586</a>
	Type of lever Long roller lever	Type of connection 6,35 mm FASTON	Nº of NO contacts 1	Nº of CO contacts 1	Nº of NC contacts 16	REF <a href="#">146TA1168</a>
	Type of lever Long roller lever	Type of connection 6,35 mm FASTON	Nº of NO contacts 1	Nº of CO contacts 1	Nº of NC contacts 10	REF <a href="#">145TA9794</a>
	Type of lever Long roller lever	Type of connection Cable (520 mm)	Nº of NO contacts 1	Nº of CO contacts 1	Nº of NC contacts 5	REF <a href="#">107TA1612</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Long roller lever	Cable + cable with connector (95 mm)		1		15	<a href="#">146TA1155</a>
	Long roller lever	Cable with connector (110 mm)			1	15	<a href="#">145TA9830</a>
	Long roller lever	Cable with connector (115 mm)		1		5	<a href="#">161TA7271</a>
	Long roller lever	Cable with connector (120 mm)	1			0,1	<a href="#">146TA1205</a>
	Long roller lever	Cable with connector (120 mm)	1			15	<a href="#">145TA9537</a>
	Long roller lever	Cable with connector (125 mm)	1			0,1	<a href="#">161TA7630</a>
	Long roller lever	Cable with connector (150 mm)			1	5	<a href="#">146TA1011</a>
	Long roller lever	Cable with connector (200 mm)		1		21	<a href="#">161TA7592</a>

# MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	Cable with connector (525 mm)		1		5	<a href="#">161TA7347</a>
Long roller lever	Solder connection		1		15	<a href="#">145TA9736</a>
Long roller lever	Solder connection + 6,35 mm FASTON		1		10	<a href="#">164TA9866</a>
Long simulated lever	4,75 mm FASTON		1		0,1	<a href="#">164TA9805</a>
Long simulated lever	4,75 mm FASTON		1		5	<a href="#">146TA1065</a>
Long simulated lever	Cable (295 mm)		1		0,1	<a href="#">145TA9638</a>
Long simulated lever	Cable with connector (1220 mm)		1		0,1	<a href="#">146TA1313</a>
Long straight lever	4,75 mm FASTON		1		0,1	<a href="#">145TA9813</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long straight lever	4,75 mm FASTON		1		0,1	<a href="#">146TA1000</a>
Long straight lever	4,75 mm FASTON		1		3	<a href="#">146TA1189</a>
Long straight lever	4,75 mm FASTON		1		5	<a href="#">145TA9710</a>
Long straight lever	4,75 mm FASTON		1		11	<a href="#">146TA1085</a>
Long straight lever	4,75 mm FASTON		1		15	<a href="#">145TA9684</a>
Long straight lever	6,35 mm FASTON		1		10	<a href="#">145TA9703</a>
Long straight lever	6,35 mm FASTON		1		10	<a href="#">146TA1389</a>
Long straight lever	6,35 mm FASTON		1		10	<a href="#">146TA1227</a>

# MICROSWITCHES

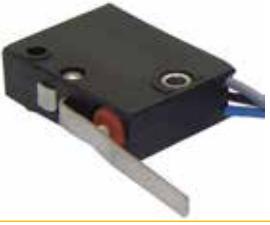
Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long straight lever	6,35 mm FASTON		1		10	<a href="#">106TA2460</a>
Long straight lever	6,35 mm FASTON		1		10	<a href="#">145TA9546</a>
Long straight lever	6,35 mm FASTON		1		10	<a href="#">146TA1017</a>
Long straight lever	6,35 mm FASTON		1		15	<a href="#">145TA9732</a>
Long straight lever	6,35 mm FASTON		1		16	<a href="#">145TA9439</a>
Long straight lever	6,35 mm FASTON		1		16	<a href="#">146TA1407</a>
Long straight lever	Cable (300 mm)		1		5	<a href="#">151TA1492</a>
Long straight lever	Cable (300 mm)		1		5	<a href="#">145TA9528</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Long straight lever	Cable (500 mm)			1	1,5	<a href="#">146TA1019</a>
	Long straight lever	Cable (520 mm)		1		5	<a href="#">146TA1337</a>
	Long straight lever	Cable (520 mm)		1		5	<a href="#">145TA9590</a>
	Long straight lever	Cable with connector (140 mm)			1	5	<a href="#">146TA1211</a>
	Long straight lever	Cable with connector (175 mm)	1			5	<a href="#">145TA9613</a>
	Long straight lever	Cable with connector (250 mm)		1		5	<a href="#">161TA7550</a>
	Long straight lever	Cable with connector (530 mm)		1		5	<a href="#">161TA7455</a>
	Long straight lever	Cable with connector (545 mm)		1		5	<a href="#">146TA1228</a>

# MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long straight lever	Cable with connector (1100 mm)			1	1,5	<a href="#">145TA9655</a>
Long straight lever	Solder connection + 4,75 mm FASTON		1		8	<a href="#">152TA1743</a>
Panel mount plunger	6,35 mm FASTON		1		10	<a href="#">146TA1070</a>
Panel mount plunger	6,35 mm FASTON		1		10	<a href="#">145TA9548</a>
Panel mount plunger	6,35 mm FASTON		1		16	<a href="#">145TA9933</a>
Panel mount plunger	6,35 mm FASTON		1		16	<a href="#">146TA1393</a>
Panel mount plunger	Cable (540 mm)		1		8	<a href="#">145TA9896</a>
Panel mount plunger	Cable (600 mm)		1		5	<a href="#">145TA9559</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Panel mount plunger	Cable with connector (130 mm)	1			5	<a href="#">145TA9802</a>
Panel mount plunger	Cable with connector (130 mm)			1	5	<a href="#">161TA7408</a>
Panel mount plunger	Cable with connector (155 mm)	1			5	<a href="#">145TA9916</a>
Panel mount plunger	Cable with connector (165 mm)	1			5	<a href="#">145TA9637</a>
Panel mount plunger	Cable with connector (190 mm)		1		8	<a href="#">161TA7570</a>
Pin plunger	4,75 mm FASTON		1		5	<a href="#">145TA9865</a>
Pin plunger	4,75 mm FASTON		1		11	<a href="#">145TA9994</a>
Pin plunger	4,75 mm FASTON		1		15	<a href="#">146TA1164</a>

# MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	4,75 mm FASTON		1		15	<a href="#">145TA9579</a>
Pin plunger	6,35 mm FASTON	1		1	16	<a href="#">145TA9729</a>
Pin plunger	6,35 mm FASTON	1		1		<a href="#">152TA1746</a>
Pin plunger	6,35 mm FASTON	1			10	<a href="#">145TA9553</a>
Pin plunger	6,35 mm FASTON	1			16	<a href="#">145TA9731</a>
Pin plunger	6,35 mm FASTON		1		0,1	<a href="#">145TA9980</a>
Pin plunger	6,35 mm FASTON		1		16	<a href="#">145TA9554</a>
Pin plunger	6,35 mm FASTON		1		8	<a href="#">146TA1266</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	6,35 mm FASTON		1		10	<a href="#">145TA9564</a>
	Pin plunger	6,35 mm FASTON		1		15	<a href="#">145TA9552</a>
	Pin plunger	6,35 mm FASTON		1		16	<a href="#">146TA1107</a>
	Pin plunger	6,35 mm FASTON		1		16	<a href="#">145TA9443</a>
	Pin plunger	6,35 mm FASTON		1		16	<a href="#">145TA9854</a>
	Pin plunger	6,35 mm FASTON			1	10	<a href="#">145TA9594</a>
	Pin plunger	Cable (250 mm)			1	5	<a href="#">146TA1016</a>
	Pin plunger	Cable (260 mm)			1	1,5	<a href="#">146TA7165</a>

# MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Cable (300 mm)		1		6	<a href="#">145TA9483</a>
Pin plunger	Cable (445 mm)		1		0,1	<a href="#">146TA1219</a>
Pin plunger	Cable (445 mm)		1		0,1	<a href="#">145TA9662</a>
Pin plunger	Cable (500 mm)	1			5	<a href="#">146TA1146</a>
Pin plunger	Cable (500 mm)		1		1,5	<a href="#">145TA9777</a>
Pin plunger	Cable (530 mm)		1		5	<a href="#">146TA1064</a>
Pin plunger	Cable (1000 mm)		1		5	<a href="#">146TA1190</a>
Pin plunger	Cable with connector (80 mm)			1	3	<a href="#">146TA1508</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Cable with connector (85 mm)			1	1,5	<a href="#">146TA1047</a>
	Pin plunger	Cable with connector (120 mm)		1		5	<a href="#">145TA9998</a>
	Pin plunger	Cable with connector (183 mm)		1		5	<a href="#">146TA1062</a>
	Pin plunger	Cable with connector (185 mm)		1		5	<a href="#">146TA1210</a>
	Pin plunger	Cable with connector (190 mm)		1		3	<a href="#">146TA1272</a>
	Pin plunger	Cable with connector (225 mm)		1		5	<a href="#">161TA7449</a>
	Pin plunger	Cable with connector (255 mm)		1		5	<a href="#">161TA7123</a>
	Pin plunger	Cable with connector (310 mm)			1	5	<a href="#">161TA7673</a>

# MICROSWITCHES

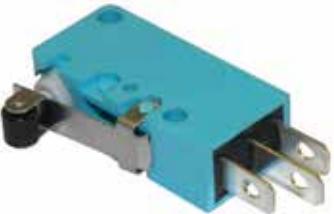
Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Cable with connector (460 mm)		1		1	<a href="#">146TA1341</a>
Pin plunger	Screw connection	1		1	3	<a href="#">146TA1195</a>
Pin plunger	Screw connection		1		15	<a href="#">145TA9584</a>
Pin plunger	PCB pin	1			10	<a href="#">145TA9557</a>
Pin plunger	PCB pin	1			10	<a href="#">146TA1203</a>
Pin plunger	Solder connection		1		10	<a href="#">146TA1214</a>
Pin plunger	Solder connection		1		15	<a href="#">145TA9582</a>
Pin plunger	Solder connection		1		15	<a href="#">146TA1450</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	4,75 mm FASTON		1		0,1	<a href="#">145TA9787</a>
	Roller lever	4,75 mm FASTON		1		0,1	<a href="#">146TA1075</a>
	Roller lever	4,75 mm FASTON		1		3	<a href="#">145TA9607</a>
	Roller lever	4,75 mm FASTON		1		15	<a href="#">145TA9587</a>
	Roller lever	4,75 mm FASTON		1		16	<a href="#">146TA1436</a>
	Roller lever	4,75 mm FASTON		1		16	<a href="#">146TA1498</a>
	Roller lever	6,35 mm FASTON		1		1	<a href="#">145TA9996</a>
	Roller lever	6,35 mm FASTON		1		6	<a href="#">145TA9820</a>

# MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Roller lever	6,35 mm FASTON		1		4	<a href="#">146TA1236</a>
Roller lever	6,35 mm FASTON		1		5	<a href="#">145TA9677</a>
Roller lever	6,35 mm FASTON		1		10	<a href="#">145TA9761</a>
Roller lever	6,35 mm FASTON		1		10	<a href="#">164TA9881</a>
Roller lever	6,35 mm FASTON		1		10	<a href="#">164TA9880</a>
Roller lever	6,35 mm FASTON		1		10	<a href="#">145TA9565</a>
Roller lever	6,35 mm FASTON		1		12	<a href="#">145TA9593</a>
Roller lever	6,35 mm FASTON		1		15	<a href="#">106TA2461</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	6,35 mm FASTON		1		16	<a href="#">145TA9416</a>
	Roller lever	6,35 mm FASTON		1		15	<a href="#">145TA9569</a>
	Roller lever	6,35 mm FASTON		1		16	<a href="#">145TA9464</a>
	Roller lever	4,75 mm FASTON		1		16	<a href="#">146TA1465</a>
	Roller lever	6,35 mm FASTON		1		16	<a href="#">146TA1422</a>
	Roller lever	6,35 mm FASTON		1		22	<a href="#">145TA9389</a>
	Roller lever	Cable (240 mm)		1		5	<a href="#">146TA1253</a>
	Roller lever	Cable (255 mm)		1		5	<a href="#">146TA1037</a>

# MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Roller lever	Cable (295 mm)		1		5	<a href="#">145TA9598</a>
Roller lever	Cable (300 mm)		1		3	<a href="#">145TA9429</a>
Roller lever	Cable (310 mm)		1		5	<a href="#">146TA1015</a>
Roller lever	Cable (500 mm)		1		1,5	<a href="#">145TA9779</a>
Roller lever	Cable (535 mm)		1		5	<a href="#">164TA9840</a>
Roller lever	Cable (525 mm)		1		5	<a href="#">145TA9833</a>
Roller lever	Cable (525 mm)		1		5	<a href="#">146TA1109</a>
Roller lever	Cable (535 mm)		1		5	<a href="#">145TA9747</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Roller lever	Cable with connector (65 mm)		1		3	<a href="#">146TA1434</a>
Roller lever	Cable with connector (115 mm)		1		3	<a href="#">161TA7483</a>
Roller lever	Cable with connector (125 mm)	1			3	<a href="#">146TA1417</a>
Roller lever	Cable with connector (127 mm)		1		5	<a href="#">146TA1289</a>
Roller lever	Cable with connector (130 mm)		1		5	<a href="#">145TA9976</a>
Roller lever	Cable with connector (140 mm)		1		5	<a href="#">145TA9954</a>
Roller lever	Cable with connector (225 mm)		1		5	<a href="#">146TA1287</a>
Roller lever	Cable with connector (260 mm)	1			5	<a href="#">145TA9656</a>

# MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Roller lever	Cable with connector (335 mm)		1		5	<a href="#">145TA9688</a>
Roller lever	Other		1		0,01	<a href="#">145TA9641</a>
Roller lever	PCB pin		1		1,5	<a href="#">146TA1259</a>
Roller lever	Screw connection		1		15	<a href="#">145TA9471</a>
Roller lever	Screw connection		1		6	<a href="#">146TA1002</a>
Roller lever	Solder connection		1		12	<a href="#">145TA9993</a>
Roller lever	Solder connection		1		15	<a href="#">146TA1283</a>
Roller lever	Solder connection + 6,35 mm FASTON		1		10	<a href="#">145TA9493</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Simulated lever	PCB pin		1		1,5	<a href="#">146TA1325</a>
Special	6,35 mm FASTON		1		10	<a href="#">145TA9900</a>
Straight lever	4,75 mm FASTON		1		0,1	<a href="#">164TA9804</a>
Straight lever	4,75 mm FASTON		1		15	<a href="#">145TA9601</a>
Straight lever	4,75 mm FASTON		1		15	<a href="#">145TA9577</a>
Straight lever	6,35 mm FASTON		1		16	<a href="#">145TA9395</a>
Straight lever	6,35 mm FASTON			1	10	<a href="#">145TA9560</a>

# MICROSWITCHES



Centre distance: 22,2 mm + special

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Special	6,35 mm FASTON			1	6	<a href="#"><u>106TA6794</u></a>

MICROSWITCHES

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 25,4 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	6,35 mm FASTON		1		15	<a href="#">145TA9474</a>
Long roller lever	Cable with connector (240 mm)	1			0,5	<a href="#">151TA1441</a>
Long roller lever	Covered screw connection		1		0,25	<a href="#">145TA9877</a>
Long roller lever	Screw connection		1		15	<a href="#">151TA1464</a>
Long roller lever	Screw connection		1		15	<a href="#">145TA9750</a>
Long roller lever	Screw connection		1		15	<a href="#">164TA9900</a>
Long roller lever	Screw connection		1		15	<a href="#">145TA9664</a>
Long roller lever	Screw connection		1		15	<a href="#">145TA9588</a>

# MICROSWITCHES

Centre distance: 25,4 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	Solder connection		1		5	<a href="#">106TA2499</a>
Long roller lever	Solder connection		1		15	<a href="#">106TA2491</a>
Long simulated lever	4,75 mm FASTON		1		11	<a href="#">125TA6323</a>
Long straight lever	6,35 mm FASTON		1		15	<a href="#">146TA1265</a>
Long straight lever	6,35 mm FASTON		1		16	<a href="#">146TA1270</a>
Long straight lever	6,35 mm FASTON		1		25	<a href="#">145TA9908</a>
Long straight lever	Cable with connector (275 mm)	1			15	<a href="#">145TA9864</a>
Long straight lever	Cable with connector (310 mm)			1	15	<a href="#">146TA1235</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 25,4 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long straight lever	Screw connection		1		15	<a href="#">145TA9473</a>
Long straight lever	Screw connection		1		15	<a href="#">106TA2477</a>
Long straight lever	Screw connection		2		10	<a href="#">145TA9682</a>
Panel mount plunger	6,35 mm FASTON	1		1	16	<a href="#">145TA9596</a>
Panel mount plunger	6,35 mm FASTON		1		15	<a href="#">146TA1479</a>
Panel mount plunger	6,35 mm FASTON		1		21	<a href="#">146TA1225</a>
Panel mount plunger	6,35 mm FASTON		1		25	<a href="#">106TA2510</a>
Panel mount plunger	Cable with connector (155 mm)		1		5	<a href="#">145TA9398</a>

# MICROSWITCHES

Centre distance: 25,4 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Panel mount plunger	Cable with connector (440 mm)		1		5	<a href="#">164TA9954</a>
Panel mount plunger	Covered screw connection		1		10	<a href="#">146TA1505</a>
Panel mount plunger	Screw connection		1		15	<a href="#">106TA2514</a>
Panel mount plunger	Solder connection		1		5	<a href="#">106TA2515</a>
Panel mount plunger	Solder connection		1		15	<a href="#">146TA1409</a>
Panel mount plunger	Solder connection		1		15	<a href="#">145TA9745</a>
Pin plunger	6,35 mm FASTON	1		1	16	<a href="#">106TA2540</a>
Pin plunger	6,35 mm FASTON	1		1	16	<a href="#">106TA2539</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 25,4 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	6,35 mm FASTON	1			15	<a href="#">145TA9950</a>
	Pin plunger	6,35 mm FASTON		1		10	<a href="#">145TA9465</a>
	Pin plunger	6,35 mm FASTON		1		15	<a href="#">146TA1285</a>
	Pin plunger	6,35 mm FASTON		1		16	<a href="#">145TA9719</a>
	Pin plunger	6,35 mm FASTON		1		21	<a href="#">146TA1221</a>
	Pin plunger	Cable (500 mm)		1		5	<a href="#">145TA9562</a>
	Pin plunger	Cable (510 mm)		1		5	<a href="#">145TA9422</a>
	Pin plunger	Cable with connector (185 mm)		1		5	<a href="#">146TA1249</a>

# MICROSWITCHES

Centre distance: 25,4 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Cable with connector (230 mm)		1		15	<a href="#">145TA9883</a>
Pin plunger	Cable with connector (250 mm)		1		10	<a href="#">145TA9514</a>
Pin plunger	Cable with connector (420 mm)			1	15	<a href="#">146TA1048</a>
Pin plunger	Cable with connector (435 mm)		1		15	<a href="#">145TA9494</a>
Pin plunger	Cable with connector (1500 mm)		1		5	<a href="#">145TA9436</a>
Pin plunger	Cable with connector (2260 mm)	1			5	<a href="#">146TA1340</a>
Pin plunger	Covered screw connection		1		5	<a href="#">146TA1191</a>
Pin plunger	Covered screw connection		1		5	<a href="#">145TA9611</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 25,4 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Screw connection		1		15	<a href="#">126TA6173</a>
	Pin plunger	Screw connection		1		15	<a href="#">145TA9634</a>
	Pin plunger	Screw connection		1		15	<a href="#">145TA9478</a>
	Pin plunger	Screw connection		1		15	<a href="#">145TA9578</a>
	Pin plunger	Screw connection		1		20	<a href="#">145TA9695</a>
	Pin plunger	Screw connection		1		20	<a href="#">145TA9687</a>
	Roller lever	2,8 mm FASTON		1		15	<a href="#">145TA9658</a>
	Roller lever	6,35 mm FASTON	1		1	5	<a href="#">146TA1003</a>

# MICROSWITCHES

Centre distance: 25,4 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Roller lever	6,35 mm FASTON		1		10	<a href="#">124TA1677</a>
Roller lever	6,35 mm FASTON		1		15	<a href="#">106TA2505</a>
Roller lever	6,35 mm FASTON		1		15	<a href="#">145TA9948</a>
Roller lever	Cable with connector (90 mm)	1				<a href="#">146TA1405</a>
Roller lever	Cable with connector (110 mm)		1		3	<a href="#">161TA7749</a>
Roller lever	Cable with connector (140 mm)		1			<a href="#">164TA9948</a>
Roller lever	Cable with connector (140 mm)		1		5	<a href="#">151TA1481</a>
Roller lever	Cable with connector (160 mm)		1		15	<a href="#">145TA9585</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 25,4 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Roller lever	Cable with connector (225 mm)	1			10	<a href="#">146TA1297</a>
Roller lever	Cable with connector (340 mm)		1		15	<a href="#">146TA1358</a>
Roller lever	Covered screw connection	1		1	10	<a href="#">106TA2528</a>
Roller lever	Covered screw connection		1		2	<a href="#">146TA1095</a>
Roller lever	Screw connection	1		1	15	<a href="#">145TA9905</a>
Roller lever	Screw connection		1		0,14	<a href="#">151TA1462</a>
Roller lever	Screw connection		1		3	<a href="#">146TA2358</a>
Roller lever	Screw connection		1		3	<a href="#">145TA9952</a>

# MICROSWITCHES

Centre distance: 25,4 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Roller lever	Screw connection		1		15	<a href="#">164TA9870</a>
Roller lever	Screw connection		1		10	<a href="#">164TA9869</a>
Roller lever	Screw connection		1		15	<a href="#">145TA9570</a>
Roller lever	Screw connection		1		16	<a href="#">146TA1201</a>
Roller lever	Screw connection		1		25	<a href="#">164TA9932</a>
Roller lever	Screw connection		2		1	<a href="#">106TA2501</a>
Roller lever	Solder connection		1		16	<a href="#">145TA9841</a>
Roller lever	Solder connection		1		16	<a href="#">146TA1208</a>

# MICROSWITCHES



## MICROSWITCHES

Centre distance: 25,4 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller plunger	Cable (720 mm)			1	15	<a href="#">146TA1206</a>
	Roller plunger	Cable (1055 mm)			1	15	<a href="#">145TA9967</a>
	Roller plunger	Cable with connector (150 mm)	1			15	<a href="#">145TA9944</a>
	Roller plunger	Cable with connector (155 mm)			1	15	<a href="#">146TA1279</a>
	Roller plunger	Cable with connector (260 mm)	1			3	<a href="#">145TA9817</a>
	Roller plunger	Cable with connector (295 mm)	1			3	<a href="#">145TA9649</a>
	Roller plunger	Covered screw connection		1		10	<a href="#">145TA9746</a>
	Roller plunger	Covered screw connection		1		10	<a href="#">146TA1188</a>

# MICROSWITCHES

MICROSWITCHES

Centre distance: 25,4 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Roller plunger	Covered screw connection		1		10	<a href="#">146TA1257</a>
Roller plunger	Covered screw connection		1		10	<a href="#">106TA2485</a>
Roller plunger	Screw connection	1		1	15	<a href="#">145TA9810</a>
Roller plunger	Screw connection		1		0,25	<a href="#">145TA9612</a>
Roller plunger	Screw connection		1		5	<a href="#">145TA9496</a>
Roller plunger	Screw connection		1		15	<a href="#">146TA1454</a>
Roller plunger	Screw connection		1		15	<a href="#">145TA9551</a>
Roller plunger	Screw connection		1		15	<a href="#">105TA4728</a>

# MICROSWITCHES



## MICROSWITCHES

Centre distance: 25,4 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller plunger	Screw connection		1		20	<a href="#">145TA9785</a>
	Simulated lever	6,35 mm FASTON	1		1	15	<a href="#">106TA2482</a>
	Special	6,35 mm FASTON		1		10	<a href="#">146TA1326</a>
	Straight lever	6,35 mm FASTON		1		20	<a href="#">145TA9574</a>
	Straight lever	Covered screw connection	1		1	10	<a href="#">106TA2534</a>

# MICROSWITCHES

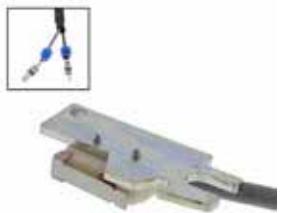


Centre distance: 26,6 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Cable with connector (530 mm)	1			4	<a href="#">145TA9394</a>
	Roller plunger	Screw connection		1		5	<a href="#">152TA1754</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 28,0 mm							
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	6,35 mm FASTON	1		1	16	<a href="#">145TA9503</a>
	Pin plunger	PCB pin	1		1	16	<a href="#">145TA9567</a>
	Pin plunger	Screw connection	1		1	16	<a href="#">107TA1607</a>
	Pin plunger	PCB pin	1		1	16	<a href="#">116TA4716</a>
	Pin plunger	PCB pin	1		1	16	<a href="#">145TA9547</a>
	Roller lever	Screw connection	1		1	16	<a href="#">146TA1119</a>
	Straight lever	Cable (300 mm)			1	5	<a href="#">146TA1294</a>

# MICROSWITCHES



Centre distance: 28,0 mm + special

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Screw connection	1		1	1	<a href="#">106TA2544</a>
Roller lever	Screw connection	1		1	16	<a href="#">145TA9566</a>

# MICROSWITCHES



## MICROSWITCHES

Centre distance: 30,0 mm							
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Cable with connector (230 mm)		1			<a href="#">146TA1124</a>
	Pin plunger	Cable with connector (740 mm)	1		1	3,5	<a href="#">146TA1226</a>
	Roller lever	4,75 mm FASTON		1		3	<a href="#">145TA9815</a>

# MICROSWITCHES



**Centre distance: 32,8 mm**

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Roller plunger	Cable with connector (460 mm)	1			5	<a href="#">145TA9482</a>
Roller plunger	Covered screw connection		1		5	<a href="#">145TA9897</a>
Special	Cable with connector (225 mm)		1		0,1	<a href="#">161TA7729</a>

# MICROSWITCHES



## MICROSWITCHES

Centre distance: 54,0 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Screw connection	1		1	10	<a href="#">107TA1604</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Screw connection	2		2	0,3	<a href="#">146TA1481</a>

# MICROSWITCHES



## Centre distance: Special

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Long roller lever	Cable (300 mm)		1		5	<a href="#">164TA9842</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	6,35 mm FASTON	1		1	8	<a href="#">145TA9853</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	6,35 mm FASTON		1		15	<a href="#">145TA9711</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	6,35 mm FASTON			1	10	<a href="#">145TA9541</a>
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Cable (2200 mm)		1		5	<a href="#">145TA9425</a>

# MICROSWITCHES



MICROSWITCHES

## NOTES

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**MICROSWITCHES**  
**(2 pieces)**

# MICROSWITCHES



## MICROSWITCHES

**Centre distance: 9,5 mm**

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	Cable with connector (310 mm)	2			10	<a href="#">165TA1034</a>
Long roller lever	Cable with connector (310 mm)	2			10,1	<a href="#">146TA1619</a>
Pin plunger	Cable (3000 mm)	2			6	<a href="#">165TA1039</a>
Pin plunger	Cable with connector (170 mm)	2			5	<a href="#">146TA1549</a>
Pin plunger	Cable with connector (310 mm)	2			5	<a href="#">146TA1615</a>
Simulated lever	Cable with connector (1000 mm)	2			6	<a href="#">146TA1575</a>

# MICROSWITCHES

**Centre distance: 13,2 mm**

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Cable with connector (495 mm)			2	0,1	<a href="#">146TA1553</a>
Pin plunger	Cable with connector (755 mm)		2			<a href="#">146TA1622</a>
Pin plunger	Cable with connector (800 mm)			2	0,1	<a href="#">146TA1624</a>
Roller lever	Cable with connector (362 mm)	2			5	<a href="#">146TA1601</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Long roller lever	Cable with connector (260 mm)			2	5	<a href="#">146TA1557</a>
Long simulated lever	Cable with connector (240 mm)	2		1	0,1	<a href="#">146TA1572</a>
Long straight lever	Cable with connector (325 mm)	1		1	5	<a href="#">146TA1594</a>
Panel mount plunger	Cable with connector (245 mm)			2	5	<a href="#">146TA1595</a>
Pin plunger	Cable (840 mm)	2			16	<a href="#">126TA5207</a>
Pin plunger	Cable (980 mm)	2			15	<a href="#">139TA5074</a>
Pin plunger	Cable with connector (230 mm)	2			5	<a href="#">136TA2918</a>
Pin plunger	Cable with connector (320 mm)			2	5	<a href="#">110TA9351</a>

# MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Cable with connector (325 mm)	2			3	<a href="#">146TA1535</a>
Pin plunger	Cable with connector (408 mm)		2		5	<a href="#">146TA1588</a>
Pin plunger	Cable with connector (430 mm)		2		10	<a href="#">146TA1582</a>
Pin plunger	Cable with connector (435 mm)		2		16	<a href="#">146TA1604</a>
Pin plunger	Cable with connector (455 mm)	2			3	<a href="#">146TA1605</a>
Pin plunger	Cable with connector (460 mm)		2		0,1	<a href="#">146TA1593</a>
Pin plunger	Cable with connector (460 mm)		2		0,1	<a href="#">118TA3241</a>
Pin plunger	Cable with connector (460 mm)		2		10	<a href="#">146TA1625</a>

# MICROSWITCHES

## MICROSWITCHES

Centre distance: 22,2 mm

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Cable with connector (470 mm)	2			3	<a href="#">146TA1538</a>
Pin plunger	Cable with connector (475 mm)		2		15	<a href="#">146TA1598</a>
Pin plunger	Cable with connector (632 mm)		2		0,1	<a href="#">146TA1600</a>
Pin plunger	Cable with connector (655 mm)		2		15	<a href="#">109TA3938</a>
Pin plunger	Cable with connector (675 mm)	1		1	15	<a href="#">146TA1720</a>
Pin plunger	Solder connection (290 mm)		2		15,1	<a href="#">146TA1618</a>
Roller lever	Cable with connector (250 mm)		2		5	<a href="#">146TA1602</a>
Roller lever	Cable with connector (310 mm)		2		3	<a href="#">146TA1536</a>

# MICROSWITCHES



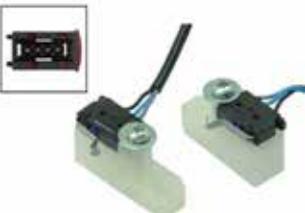
Centre distance: 22,2 mm

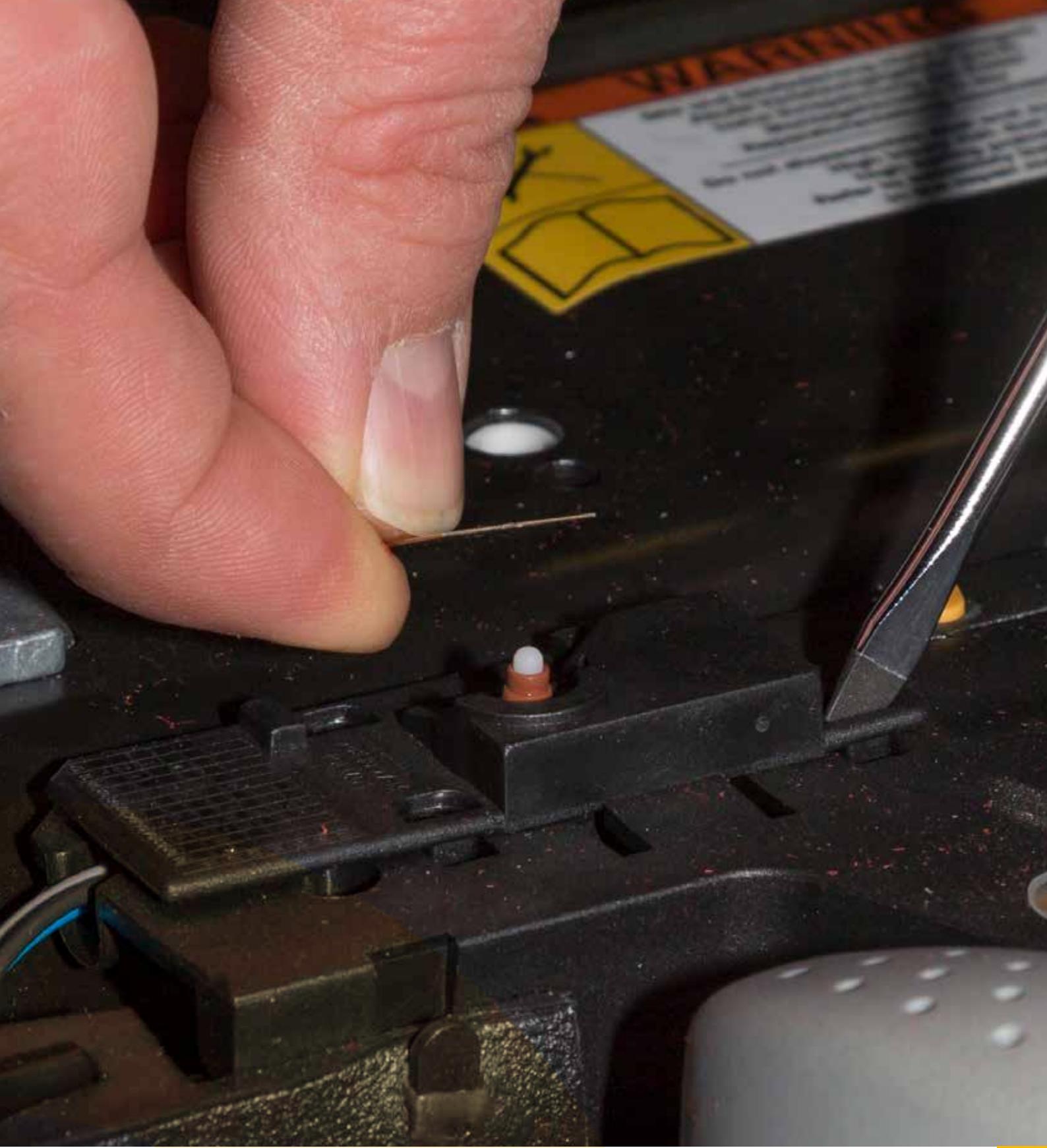
 	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	Cable with connector (320 mm)		2		5	<a href="#">146TA1603</a>

# MICROSWITCHES

## MICROSWITCHES

### Centre distance: Special

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Long roller lever	6,35 mm FASTON			2	15	<a href="#">146TA1563</a>
	Long roller lever	6,35 mm FASTON			2	15	<a href="#">146TA1564</a>
	Roller plunger	6,35 mm FASTON		2		10	<a href="#">106TA2577</a>
	Pin plunger	Cable with connector (255 mm)	2				<a href="#">146TA1571</a>
	Pin plunger	Cable with connector (460 mm)		2		15	<a href="#">118TA2165</a>
	Roller lever	Cable with connector (535 mm)			2	5	<a href="#">146TA1550</a>
	Simulated lever	Cable with connector (1000 mm)	2			6	<a href="#">146TA1559</a>



**MICROSWITCHES**  
**(3 pieces)**

# MICROSWITCHES



## MICROSWITCHES

**Centre distance: 9,5 mm**

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Pin plunger	Cable with connector (410 mm)	2		1	5	<a href="#">118TA2220</a>
Roller lever	Cable with connector (400 mm)	3				<a href="#">146TA1642</a>
Simulated lever	Cable with connector (207 mm)	2	1		6	<a href="#">118TA1922</a>

# MICROSWITCHES



Centre distance: 22,2 mm

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Long roller lever	Cable with connector (170 mm)	3			0,1	<a href="#">146TA1633</a>

# MICROSWITCHES



## MICROSWITCHES

Centre distance: 25,4 mm							
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Roller lever	Cable with connector (340 mm)	3			15	<a href="#">152TA1751</a>

# MICROSWITCHES



## Centre distance: Special

Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
Straight lever	Cable (500 mm)	3			5	<a href="#"><u>146TA1639</u></a>

MICROSWITCHES



## NOTES

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**MICROSWITCHES**  
**(4 pieces)**

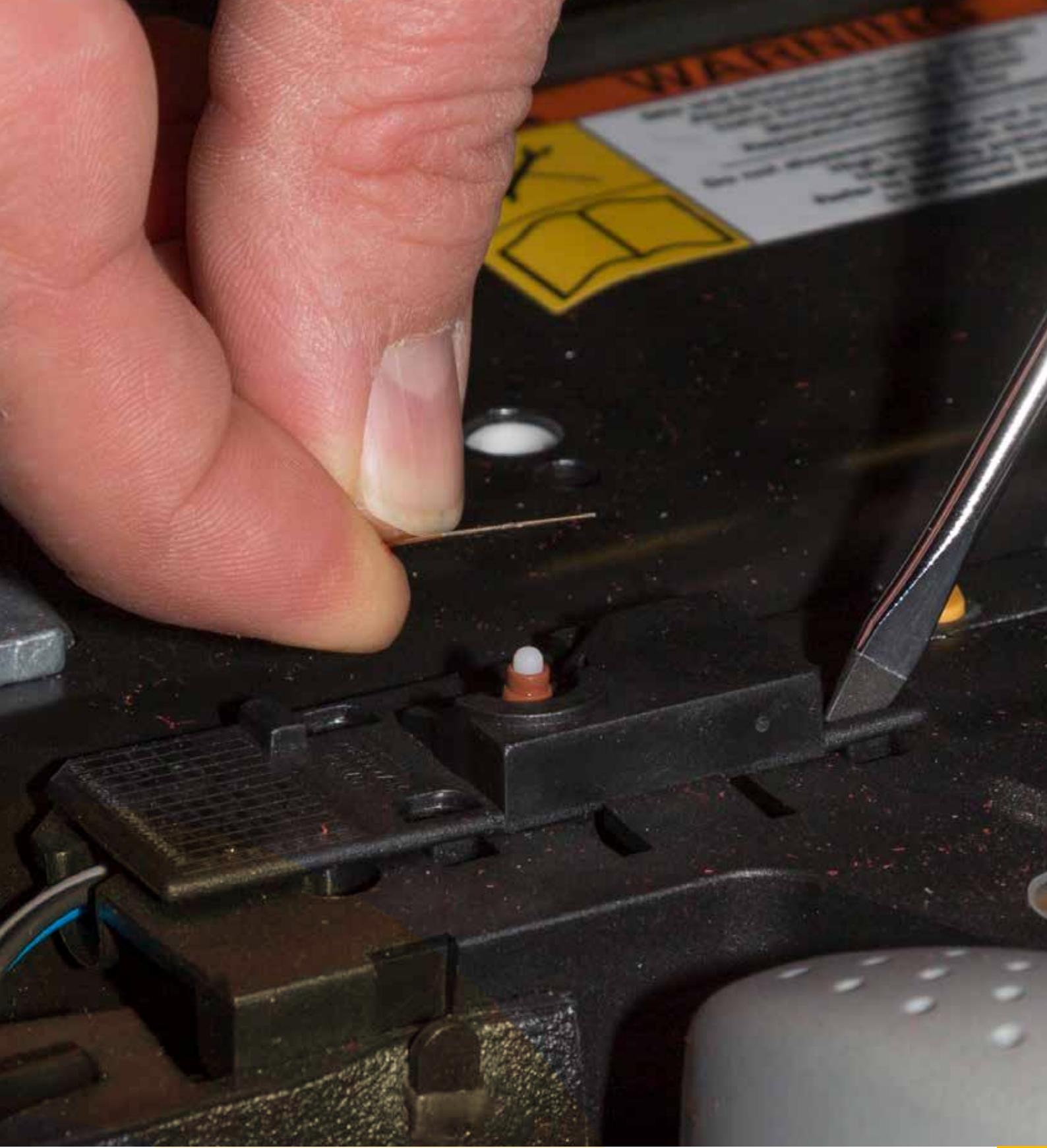
# MICROSWITCHES



## MICROSWITCHES

### Centre distance: Special

	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
 	Panel mount plunger	Cable with connector (410 mm)		4		5	<a href="#">146TA1661</a>



**MICROSWITCHES**  
**(5 pieces)**

# MICROSWITCHES



## MICROSWITCHES

Centre distance: 9,5 mm							
	Type of lever	Type of connection	Nº of NO contacts	Nº of CO contacts	Nº of NC contacts	Current (A)	REF
	Pin plunger	Cable with connector (330 mm)	5			6	<a href="#">146TA1669</a>



# LIMIT SWITCHES

# LIMIT SWITCHES



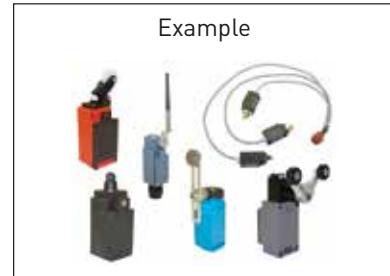
## TECHNICAL SHEET



## TECHNICAL SHEET

## LIMIT SWITCH

Group  
**02-03-05-02**



Customer details

Type of machine: .....

Price inquiry

Serial n° machine: .....

Order

TY-AS ..... Type of connections:

A = gland M20 x 1,5

B = gland M16 x 1,5

C = gland PG 13,5

D = gland PG 11

E = gland PG 9

F = gland NPT 1/2

G = fixed connector

H = cable

I = cable with connector

S = special

AT-NO ..... Number of normally open contacts (NO)

AT-NC ..... Number of normally closed contacts (NC)

AT-CO ..... Number of change-over contacts (CO)

AT-BG ..... Number of mounting holes

C ..... Centre distance between mounting holes:

E.g.: 20/22

20/22/40/42

21 x 56

29 x 60

30 x 60

41, ...

MAT1 ..... Material of the housing:

KS = plastic

M = metal

KSM = plastic + metal

# LIMIT SWITCHES



## TECHNICAL SHEET

TY-HB ..... Type of actuator:

- A = *pin plunger*
- B = *roller plunger*
- C = *roller arm*
- D = *adjustable roller arm*
- E = *lever with roller*
- F = *double roller*
- G = *flexible steel pin*
- H = *flexible nylon pin*
- I = *lever with adjustable steel pin*
- J = *lever with adjustable nylon pin*
- K = *lever with adjustable pin*
- L = *head*
- S = *special*
- Z = *without*

LG-BD ..... Position of the actuator:

- B = *top*
- L = *lateral*

MAT2 ..... Material of the roller, if present:

- KS = *plastic*
- M = *metal*
- KSM = *plastic + metal*
- RB = *rubber*

POS-ROL ..... Position of the roller, if present:

- S = *standard*
- G = *at 90° angle*
- D = *rotating*

D ..... Diameter of the roller, if present

I ..... Current (ampere) (125/250 VAC)

L ..... Length of the cable, if present

AT-SCH ..... Number of limit switches present

KIT ..... Kit (yes/no)  
If the switch is part of a kit (e.g.: support, gland ...)

MERK ..... Brand of the switch

# LIMIT SWITCHES



LIMIT SWITCHES

## TECHNICAL SHEET

### TY-AS: TYPE OF CONNECTIONS

Type A  
M20 x 1,5



Type B  
M16 x 1,5



Type C  
PG 13,5



Type D  
PG 11



Type E  
PG 9



Type F  
NPT 1/2



Type G



Type H



Type I



Type S  
Special



## TECHNICAL SHEET

### TY-HB: TYPE OF ACTUATOR

Type A



Type B



Type C



Type D



Type E



Type F



Type G



Type H



Type I



Type J



Type K



Type L



Type S  
Special

Type Z  
Without



## TECHNICAL SHEET

### LG-BD: POSITION OF THE ACTUATOR

Type B



Type L



### POS-ROL: POSITION OF THE ROLLER

Type S  
Standard



Type G  
At 90° angle



Type D  
Rotating





## TECHNICAL SHEET



## TECHNISCHE FICHE

### EINDSCHAELAAR

Groep  
**02-03-05-02**

Voorbeeld



Gegevens klant

Type machine: .....

Prijsaanvraag

Serienr. machine: .....

Bestelling

TY-AS ..... Type aansluitingen:  
*A = pakkingbus M20 x 1,5*  
*B = pakkingbus M16 x 1,5*  
*C = pakkingbus PG 13,5*  
*D = pakkingbus PG 11*  
*E = pakkingbus PG 9*  
*F = pakkingbus NPT 1/2*  
*G = vaste connector*  
*H = kabel*  
*I = kabel met connector*  
*S = speciaal*

AT-NO ..... Aantal normaal open contacten (NO)

AT-NC ..... Aantal normaal gesloten contacten (NC)

AT-CO ..... Aantal wisselcontacten (CO)

AT-BG ..... Aantal bevestigingsgaten

C ..... Centerafstand tussen bevestigingsgaten:

*vb.: 20/22*

*20/22/40/42*

*21 x 56*

*29 x 60*

*30 x 60*

*41, ...*

MAT1 ..... Materiaal van de behuizing:

*KS = kunststof*

*M = metaal*

*KSM = kunststof + metaal*

# LIMIT SWITCHES



## TECHNICAL SHEET

TY-HB ..... Type bediening:

- A = *pin plunjер*
- B = *roller plunjер*
- C = *roller arm*
- D = *regelbare roller arm*
- E = *hefboom met roller*
- F = *dubbel roller*
- G = *flexibele stang staal*
- H = *flexibele stang nylon*
- I = *hefboom met regelbare staal stang*
- J = *hefboom met regelbare nylon stang*
- K = *hefboom met flexibele stang*
- L = *kop*
- S = *speciaal*
- Z = *zonder*

LG-BD ..... Ligging van de bediening:

- B = *boven*
- L = *lateraal*

MAT2 ..... Materiaal van de roller, indien aanwezig:

- KS = *kunststof*
- M = *metaal*
- KSM = *kunststof + metaal*
- RB = *rubber*

POS-ROL ..... Positie van de roller, indien aanwezig:

- S = *standaard*
- G = *90° gedraaid*
- D = *draaibaar*

D ..... Diameter van de roller, indien aanwezig

I ..... Stroom (ampère) (125/250 VAC)

L ..... Lengte van de kabel, indien aanwezig

AT-SCH ..... Aantal eindschakelaars aanwezig

KIT ..... Kit (ja/nee)  
Indien de schakelaar deel uitmaakt van een kit (vb: support, pakkingbus ...)

MERK ..... Merk van de schakelaar



## TECHNICAL SHEET



## FICHE TECHNIQUE

### INTERRUPEUR FIN DE COURSE

Groupe

**02-03-05-02**

Exemple



Données client

Type machine : .....

Demande de prix

No. série machine : .....

Commande

TY-AS ..... Type de connexion :  
 A = presse étoupe M20 x 1,5  
 B = presse étoupe M16 x 1,5  
 C = presse étoupe PG 13,5  
 D = presse étoupe PG 11  
 E = presse étoupe PG 9  
 F = presse étoupe NPT 1/2  
 G = fiche moulée sur interrupteur  
 H = câble  
 I = câble avec fiche  
 S = spéciale

AT-NO ..... Nombre de contacts normalement ouverts (Normally Open)

AT-NC ..... Nombre de contacts normalement fermés (Normally Closed)

AT-CO ..... Nombre de contacts inverseurs (Change Over)

AT-BG ..... Nombre de trous de fixation

C ..... Entraxe entre trous de fixation :

Ex : 20/22

20/22/40/42

21 x 56

29 x 60

30 x 60

41, ...

MAT1 ..... Matière du boîtier :

KS = plastique

M = métal

KSM = plastique + métal

# LIMIT SWITCHES



## TECHNICAL SHEET

- TY-HB ..... Type de commande :  
A = bouton poussoir  
B = poussoir à galet  
C = bras à galet  
D = bras à galet à longueur variable  
E = levier à galet  
F = double galet  
G = tige oscillante acier  
H = tige oscillante nylon  
I = levier à tige réglable acier  
J = levier à tige réglable nylon  
K = levier à tige oscillante  
L = tête seule  
S = spéciales  
Z = sans
- LG-BD ..... Position de la commande :  
B = dessus  
L = latérale
- MAT2 ..... Matière du galet :  
KS = plastique  
M = métal  
KSM = plastique + métal  
RB = caoutchouc
- POS-ROL ..... Position du galet :  
S = standard  
G = tourné à 90°  
D = pivotant
- D ..... Diamètre du galet
- I ..... Ampérage (125/250 VAC)
- L ..... Longueur du câble, si présent
- AT-SCH ..... Nombre d'interrupteurs de fin de course présent
- KIT ..... Kit (oui/non)  
Si l'interrupteur fait partie d'un kit (ex : support, presse étoupe, ...)
- MERK ..... Marque de l'interrupteur



## TECHNICAL SHEET



## TECHNISCHES DATENBLATT

### ENDSCHALTER

Gruppe  
**02-03-05-02**

Beispiel



Kundendaten

Maschinentyp: .....

Preisanfrage

Serien-Nr. Maschine: .....

Bestellung

TY-AS ..... Anschlußtyp:

A = Stopfbüchse M20 x 1,5

B = Stopfbüchse M16 x 1,5

C = Stopfbüchse PG 13,5

D = Stopfbüchse PG 11

E = Stopfbüchse PG 9

F = Stopfbüchse NPT 1/2

G = festes Verbindungsstück

H = Kabel

I = Kabel mit Verbindungsstück

S = Spezial

AT-NO ..... Anzahl normal offene (Normally Open) Kontakte

AT-NC ..... Anzahl normal geschlossene (Normally Closed) Kontakte

AT-CO ..... Anzahl Wechselkontakte (Change Over)

AT-BG ..... Anzahl Befestigungslöcher

C ..... Lochabstand zwischen den Befestigungslöchern:

zB: 20/22

20/22/40/42

21 x 56

29 x 60

30 x 60

41, ...

MAT1 ..... Material Gehäuse:

KS = Kunststoff

M = Metall

KSM = Kunststoff + Metall

# LIMIT SWITCHES



## TECHNICAL SHEET

- TY-HB ..... Bedienungstyp:  
A = *Stiftplunger*  
B = *Rollenplunger*  
C = *Rollenarm*  
D = *regelbarer Rollenarm*  
E = *Schalthebel mit Rolle*  
F = *Doppelrolle*  
G = *flexible Stahlstange*  
H = *flexible Nylonstange*  
I = *Schalthebel mit regelbarer Stahlstange*  
J = *Schalthebel mit regelbarer Nylonstange*  
K = *Schalthebel mit flexibeler Stange*  
L = *Kopf*  
S = *Spezial*  
Z = *ohne*
- LG-BD ..... Lage von der Bedienung:  
B = *oben*  
L = *seitlich*
- MAT2 ..... Material Rolle, wenn anwesend:  
KS = *Kunststoff*  
M = *Metall*  
KSM = *Kunststoff + Metall*  
RB = *Gummi*
- POS-ROL ..... Position von der Rolle, wenn anwesend:  
S = *Standard*  
G = *90° gedreht*  
D = *drehbar*
- D ..... Durchmesser Rolle, wenn anwesend
- I ..... Strom (Ampere) (125/250 VAC)
- L ..... Kabellänge, wenn anwesend
- AT-SCH ..... Anzahl Endschalter anwesend
- KIT ..... Satz (ja/nein)  
Wenn ein Satz den Schalter beinhaltet (zB: Halterung, Stopfbüchse, ...)
- MERK ..... Marke vom Schalter

# LIMIT SWITCHES



LIMIT SWITCHES

Centre distance: 14 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Cable (1820 mm)	1			1,5	<a href="#"><u>146TA9490</u></a>



# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 19 mm



Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Cable (1035 mm)	1		1	10	<a href="#">165TA1124</a>

# LIMIT SWITCHES



Centre distance: 20 mm

	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Adjustable roller arm	Cable (2000 mm)	1		1	3	<a href="#">147TA5294</a>
	Adjustable roller arm	Cable with connector (1830 mm)			1	3	<a href="#">146TA4612</a>
	Lever with roller	Fixed connector	1		1	8	<a href="#">142TA1533</a>
	Pin plunger	Cable (1050 mm)	1		1	0,1	<a href="#">147TA5739</a>
	Pin plunger	Cable (2000 mm)	1		1	3	<a href="#">147TA5662</a>
	Pin plunger	Cable (2000 mm)	1		1	3	<a href="#">147TA5667</a>
	Pin plunger	Cable (2000 mm)	1		1	3	<a href="#">147TA5661</a>
	Pin plunger	Cable (810 mm)	1		1	0,1	<a href="#">147TA5744</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 mm							
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Pin plunger	Cable with connector (1210 mm)			1	1,5	<a href="#">147TA5634</a>
	Pin plunger	Cable with connector (150 mm)		1		3	<a href="#">146TA5210</a>
	Pin plunger	Cable with connector (185 mm)			1	3	<a href="#">146TA8163</a>
	Pin plunger	Cable with connector (190 mm)	1		1	3	<a href="#">146TA4819</a>
	Pin plunger	Cable with connector (205 mm)	1		1	3	<a href="#">146TA4811</a>
	Pin plunger	Cable with connector (260 mm)			1	1,5	<a href="#">146TA4589</a>
	Pin plunger	Cable with connector (345 mm)	1				<a href="#">147TA5684</a>
	Pin plunger	Cable with connector (360 mm)	1		1	6	<a href="#">165TA1107</a>

# LIMIT SWITCHES



Centre distance: 20 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Pin plunger	Cable with connector (365 mm)	1		1	1,5	<a href="#">147TA5626</a>
Pin plunger	Cable with connector (365 mm)			2	1,5	<a href="#">147TA5617</a>
Pin plunger	Cable with connector (375 mm)	1		1	3	<a href="#">146TA4815</a>
Pin plunger	Cable with connector (390 mm)	1		1	3	<a href="#">146TA4437</a>
Pin plunger	Cable with connector (405 mm)	1			1,5	<a href="#">147TA5699</a>
Pin plunger	Cable with connector (415 mm)	1		1	1,5	<a href="#">147TA1153</a>
Pin plunger	Cable with connector (420 mm)	1		1	3	<a href="#">146TA4401</a>
Pin plunger	Cable with connector (445 mm)			1	3	<a href="#">146TA4397</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 mm							
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Pin plunger	Cable with connector (755 mm)	1		1	1,5	<a href="#">146TA4450</a>
	Pin plunger	Cable with connector (800 mm)	1		1	1,5	<a href="#">147TA5716</a>
	Pin plunger	Fixed connector		1			<a href="#">146TA2846</a>
	Pin plunger	Fixed connector	1		1	8	<a href="#">106TA2575</a>
	Roller arm	Cable (2000 mm)	1		1	3	<a href="#">146TA7810</a>
	Roller arm	Cable (2000 mm)	1		1	3	<a href="#">147TA1248</a>
	Roller arm	Cable (2050 mm)	1		1	3	<a href="#">147TA5267</a>
	Roller arm	Cable with connector (1000 mm)	1		1	1,5	<a href="#">147TA5276</a>

# LIMIT SWITCHES



Centre distance: 20 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Cable with connector (1005 mm)	1		1	1,5	<a href="#">147TA5281</a>
Roller arm	Cable with connector (1030 mm)	1			8	<a href="#">147TA5285</a>
Roller arm	Cable with connector (1840 mm)	1		1	3	<a href="#">146TA4564</a>
Roller arm	Cable with connector (2030 mm)	1		1	3	<a href="#">147TA5284</a>
Roller arm	Cable with connector (270 mm)	1		1	1,5	<a href="#">147TA5278</a>
Roller arm	Cable with connector (330 mm)	1		1	3	<a href="#">147TA5283</a>
Roller arm	Cable with connector (330 mm)	1			10	<a href="#">165TA1132</a>
Roller arm	Cable with connector (350 mm)	1		1	1,5	<a href="#">147TA5279</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 mm							
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller arm	Cable with connector (350 mm)	1		1	1,5	<a href="#">147TA5274</a>
	Roller arm	Cable with connector (365 mm)	1			3	<a href="#">146TA4467</a>
	Roller arm	Cable with connector (365 mm)		1		1,5	<a href="#">147TA5289</a>
	Roller arm	Cable with connector (370 mm)			1	1,5	<a href="#">146TA4448</a>
	Roller arm	Cable with connector (390 mm)	1		1	3	<a href="#">146TA4446</a>
	Roller arm	Cable with connector (395 mm)			1	3	<a href="#">146TA4445</a>
	Roller arm	Cable with connector (400 mm)	1		1	1,5	<a href="#">146TA4444</a>
	Roller arm	Cable with connector (685 mm)	1			3	<a href="#">146TA4416</a>

# LIMIT SWITCHES



**Centre distance: 20 mm**

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Fixed connector	1		1	3	<a href="#">147TA5265</a>
Roller arm	Special	1		1	2,5	<a href="#">147TA5291</a>
Roller plunger	Cable (1030 mm)	1		1	1,5	<a href="#">165TA1191</a>
Roller plunger	Cable (1050 mm)	1		1	3	<a href="#">147TA5227</a>
Roller plunger	Cable (1055 mm)	1		1	0,1	<a href="#">147TA5239</a>
Roller plunger	Cable (1400 mm)		1		3	<a href="#">146TA2087</a>
Roller plunger	Cable (1965 mm)	1		2	3	<a href="#">147TA5241</a>
Roller plunger	Cable (2000 mm)	1		1	3	<a href="#">147TA5226</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 mm							
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller plunger	Cable (2000 mm)			1	3	<a href="#">147TA5242</a>
	Roller plunger	Cable (2000 mm)	1		1	3	<a href="#">147TA5229</a>
	Roller plunger	Cable (2000 mm)			2	1,5	<a href="#">147TA5245</a>
	Roller plunger	Cable (2000 mm)	1		1	3	<a href="#">147TA5230</a>
	Roller plunger	Cable (2050 mm)	1		1	3	<a href="#">147TA5234</a>
	Roller plunger	Cable (2145 mm)	1		1	1,5	<a href="#">147TA5236</a>
	Roller plunger	Cable (2960 mm)	1		1	1,5	<a href="#">146TA5949</a>
	Roller plunger	Cable (3000 mm)	1		1	1,5	<a href="#">147TA5235</a>

# LIMIT SWITCHES

Centre distance: 20 mm							
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller plunger	Cable (3000 mm)	1		1	1,5	<a href="#">147TA5222</a>
	Roller plunger	Cable (4000 mm)	1		1	1,5	<a href="#">147TA5233</a>
	Roller plunger	Cable (4930 mm)	1		1	1,5	<a href="#">146TA5931</a>
	Roller plunger	Cable (565 mm)			1	3	<a href="#">147TA5244</a>
	Roller plunger	Cable (585 mm)			1	3	<a href="#">147TA5243</a>
	Roller plunger	Cable (6500 mm)	1		1	3	<a href="#">165TA1185</a>
	Roller plunger	Cable + cable with connector (205 mm)			1	3	<a href="#">146TA6864</a>
	Roller plunger	Cable with connector (1020 mm)			1	3	<a href="#">146TA4262</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 mm							
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller plunger	Cable with connector (1080 mm)		1		3	<a href="#">146TA6840</a>
	Roller plunger	Cable with connector (1080 mm)	1		1	6	<a href="#">146TA6863</a>
	Roller plunger	Cable with connector (1100 mm)	1		1	1,5	<a href="#">147TA5248</a>
	Roller plunger	Cable with connector (155 mm)	1		1	3	<a href="#">146TA8162</a>
	Roller plunger	Cable with connector (165 mm)	1		1	1,5	<a href="#">146TA4486</a>
	Roller plunger	Cable with connector (175 mm)			1	3	<a href="#">146TA6867</a>
	Roller plunger	Cable with connector (2020 mm)	2			3	<a href="#">165TA1221</a>
	Roller plunger	Cable with connector (2050 mm)	1		1	3	<a href="#">147TA5251</a>

# LIMIT SWITCHES



Centre distance: 20 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Cable with connector (2050 mm)		1		3	<a href="#">146TA6856</a>
Roller plunger	Cable with connector (240 mm)		1		3	<a href="#">147TA5262</a>
Roller plunger	Cable with connector (245 mm)			1	0,1	<a href="#">147TA5260</a>
Roller plunger	Cable with connector (245 mm)		1			<a href="#">147TA5261</a>
Roller plunger	Cable with connector (255 mm)	1		1	3	<a href="#">146TA4820</a>
Roller plunger	Cable with connector (308 mm)	1		1	3	<a href="#">147TA5255</a>
Roller plunger	Cable with connector (345 mm)	1		1	1,5	<a href="#">165TA1126</a>
Roller plunger	Cable with connector (380 mm)	1		1	3	<a href="#">146TA4816</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 mm							
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller plunger	Cable with connector (400 mm)	1		1	3	<a href="#">146TA4817</a>
	Roller plunger	Cable with connector (420 mm)	1		1	3	<a href="#">146TA6875</a>
	Roller plunger	Cable with connector (470 mm)	1			3	<a href="#">147TA5256</a>
	Roller plunger	Cable with connector (470 mm)			1	3	<a href="#">147TA2186</a>
	Roller plunger	Cable with connector (800 mm)			1	3	<a href="#">146TA4696</a>
	Roller plunger	Cable with connector (850 mm)	1		1	1,5	<a href="#">147TA5247</a>
	Roller plunger	Fixed connector	1		1	3	<a href="#">147TA5217</a>
	Roller plunger	Fixed connector	1		1	1,5	<a href="#">147TA5219</a>

# LIMIT SWITCHES



Centre distance: 20 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Fixed connector	1		1	8	<a href="#">147TA5218</a>
Roller plunger	Fixed connector	1		1	3	<a href="#">165TA1199</a>
Roller plunger	Fixed connector	1		1	2	<a href="#">147TA5220</a>
Without	Cable (2040 mm)	1		1	1,5	<a href="#">146TA6061</a>
Without	Fixed connector	1		1	4	<a href="#">151TA1427</a>
Without	Special	1		1	1,5	<a href="#">146TA6059</a>
Without	Special	1		1	1,5	<a href="#">146TA6063</a>
Without	Special			2	1,5	<a href="#">147TA5723</a>

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 20 x 20 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Gland NPT 1/2	1		1	3	<a href="#">165TA1182</a>
Roller arm	Gland PG 11	1		1	3	<a href="#">151TA1430</a>



# LIMIT SWITCHES



Centre distance: 20 x 21 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with roller	Gland M20 x 1,5	1		1	4	<a href="#">110TA8749</a>

LIMIT SWITCHES

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Cable with connector (1765 mm)	2			3	<a href="#">147TA5419</a>
Adjustable roller arm	Cable with connector (1860 mm)	1		1	300	<a href="#">165TA1123</a>
Adjustable roller arm	Cable with connector (2150 mm)	1		1	3	<a href="#">147TA5417</a>
Adjustable roller arm	Gland M20 x 1,5	1		1	4	<a href="#">147TA5403</a>
Adjustable roller arm	Gland M20 x 1,5	1		1		<a href="#">147TA5404</a>
Adjustable roller arm	Gland NPT 1/2	1		1	10	<a href="#">147TA5414</a>
Adjustable roller arm	Gland PG 11	1		1	3	<a href="#">147TA5408</a>
Adjustable roller arm	Gland PG 11	1		1	3	<a href="#">146TA7823</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Gland PG 11	1		2	1,5	<a href="#">165TA1102</a>
Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Gland PG 11	2			3	<a href="#">147TA5412</a>
Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Gland PG 11	1		1	3	<a href="#">147TA5409</a>
Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Gland PG 13,5	1		1	10	<a href="#">146TA5716</a>
Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Gland PG 13,5	1		1	3	<a href="#">147TA5405</a>
Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Head	Gland PG 11	1		1	3	<a href="#">146TA5911</a>
Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with adjustable nylon pin	Gland PG 13,5	1		1	6	<a href="#">147TA5651</a>
Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with adjustable pin	Gland PG 11	1		1	3	<a href="#">147TA5741</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with adjustable pin	Gland PG 11	1		1	3	<a href="#">147TA5731</a>
Lever with adjustable pin	Gland PG 13,5	1		1	4	<a href="#">147TA5652</a>
Lever with adjustable steel pin	Gland PG 13,5	1		1	3	<a href="#">147TA2104</a>
Lever with roller	Cable with connector (11750 mm)			1	3	<a href="#">147TA5449</a>
Lever with roller	Cable with connector (2460 mm)			1	3	<a href="#">147TA2083</a>
Lever with roller	Cable with connector (3465 mm)			1	3	<a href="#">147TA5448</a>
Lever with roller	Cable with connector (520 mm)			1	3	<a href="#">147TA5445</a>
Lever with roller	Gland M16 x 1,5	1		1	4	<a href="#">106TA2563</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with roller	Gland M20 x 1,5	1		1	4	<a href="#">147TA5426</a>
Lever with roller	Gland M20 x 1,5	1		1	6	<a href="#">147TA5423</a>
Lever with roller	Gland M20 x 1,5	2			4	<a href="#">147TA5429</a>
Lever with roller	Gland M20 x 1,5	1		1	4	<a href="#">147TA5425</a>
Lever with roller	Gland M20 x 1,5	1		1		<a href="#">147TA5421</a>
Lever with roller	Gland M20 x 1,5	1		1	4	<a href="#">147TA5424</a>
Lever with roller	Gland PG 11	1		1	3	<a href="#">145TA1933</a>
Lever with roller	Gland PG 11	1		1	3	<a href="#">128TA3034</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with roller	Gland PG 11	1		1	3	<a href="#">128TA3030</a>
Lever with roller	Gland PG 11	1		1	3	<a href="#">128TA3033</a>
Lever with roller	Gland PG 11	1		1	10	<a href="#">165TA1178</a>
Lever with roller	Gland PG 11	1		1	3	<a href="#">147TA2133</a>
Lever with roller	Gland PG 11	1		1	3	<a href="#">147TA2136</a>
Lever with roller	Gland PG 11			2	1,5	<a href="#">147TA5624</a>
Lever with roller	Gland PG 13,5	1		1	6	<a href="#">147TA5430</a>
Pin plunger	Cable (230 mm)	1		1	30	<a href="#">146TA4561</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Pin plunger	Gland M16 x 1,5	1		1	3	<a href="#">146TA8778</a>
Pin plunger	Gland M20 x 1,5	1		1	4	<a href="#">147TA5649</a>
Pin plunger	Gland M20 x 1,5	1		1	4	<a href="#">106TA2559</a>
Pin plunger	Gland M20 x 1,5	1		1	4	<a href="#">147TA5663</a>
Pin plunger	Gland M20 x 1,5	1		1	3	<a href="#">146TA8801</a>
Pin plunger	Gland M20 x 1,5	1		1	6	<a href="#">146TA9963</a>
Pin plunger	Gland M20 x 1,5	1		1	3	<a href="#">147TA5666</a>
Pin plunger	Gland PG 11	1		1	3	<a href="#">147TA5745</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Pin plunger	Gland PG 13,5	2		2	2	<a href="#">147TA5671</a>
Pin plunger	Gland PG 13,5	1		1	6	<a href="#">147TA5657</a>
Pin plunger	Gland PG 13,5	1		1	3	<a href="#">147TA5665</a>
Pin plunger	Gland PG 13,5	1		1	10	<a href="#">146TA5718</a>
Pin plunger	Gland PG 13,5			2		<a href="#">147TA5621</a>
Roller arm	Cable (250 mm)			2	10	<a href="#">147TA5372</a>
Roller arm	Cable (250 mm)			2	10	<a href="#">147TA5373</a>
Roller arm	Cable with connector (205 mm)	1			3	<a href="#">147TA5391</a>

# LIMIT SWITCHES

Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Cable with connector (224 mm)			2	10	<a href="#">147TA5402</a>
Roller arm	Cable with connector (225 mm)			2	10	<a href="#">147TA2112</a>
Roller arm	Cable with connector (240 mm)	1		2	1,5	<a href="#">147TA5386</a>
Roller arm	Cable with connector (240 mm)	1		1	3	<a href="#">147TA2113</a>
Roller arm	Cable with connector (245 mm)	1		2	1,5	<a href="#">147TA5388</a>
Roller arm	Cable with connector (250 mm)	1		1	3	<a href="#">147TA2114</a>
Roller arm	Cable with connector (260 mm)	1		1	0,1	<a href="#">147TA5385</a>
Roller arm	Cable with connector (260 mm)	1		1	10	<a href="#">147TA5383</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Cable with connector (265 mm)			2	3	<a href="#">147TA5400</a>
Roller arm	Cable with connector (290 mm)	1		1	10	<a href="#">147TA5384</a>
Roller arm	Cable with connector (480 mm)	1		1	3	<a href="#">165TA1093</a>
Roller arm	Cable with connector (540 mm)	1		1	3	<a href="#">147TA5376</a>
Roller arm	Cable with connector (570 mm)	2			3	<a href="#">147TA5394</a>
Roller arm	Cable with connector (675 mm)	1		1	3	<a href="#">147TA5379</a>
Roller arm	Cable with connector (70 mm)	1		1	4	<a href="#">146TA4973</a>
Roller arm	Cable with connector (950 mm)	1			3	<a href="#">147TA5392</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Fixed connector	1		1	3	<a href="#">147TA5370</a>
Roller arm	Gland M16 x 1,5	1		1	3	<a href="#">147TA5336</a>
Roller arm	Gland M20 x 1,5	1		1	6	<a href="#">139TA5075</a>
Roller arm	Gland M20 x 1,5	1		1	6	<a href="#">147TA5328</a>
Roller arm	Gland M20 x 1,5	1		1	8	<a href="#">147TA5331</a>
Roller arm	Gland M20 x 1,5	1		1	6	<a href="#">165TA1198</a>
Roller arm	Gland M20 x 1,5	1		1	10	<a href="#">165TA1202</a>
Roller arm	Gland M20 x 1,5	1		1	4	<a href="#">147TA5329</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Gland M20 x 1,5	1		1	3	<a href="#">147TA5333</a>
Roller arm	Gland M20 x 1,5	1		1	4	<a href="#">147TA5332</a>
Roller arm	Gland M20 x 1,5	1		1	3	<a href="#">165TA1165</a>
Roller arm	Gland M20 x 1,5	1		1	4	<a href="#">147TA5335</a>
Roller arm	Gland NPT 1/2	1		1	3	<a href="#">145TA1997</a>
Roller arm	Gland NPT 1/2	1		2	6	<a href="#">165TA1192</a>
Roller arm	Gland PG 11	1		1	3	<a href="#">147TA5350</a>
Roller arm	Gland PG 11			2	3	<a href="#">147TA5369</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Gland PG 11	1		1	3	<a href="#">147TA5352</a>
Roller arm	Gland PG 11	1		1	3	<a href="#">147TA5362</a>
Roller arm	Gland PG 11	1		1	3	<a href="#">146TA9812</a>
Roller arm	Gland PG 11	1		1	3	<a href="#">139TA5081</a>
Roller arm	Gland PG 11	1		1	3	<a href="#">147TA5359</a>
Roller arm	Gland PG 11	1		1	3	<a href="#">151TA1431</a>
Roller arm	Gland PG 11	1			3	<a href="#">147TA5366</a>
Roller arm	Gland PG 11	1		2	1,5	<a href="#">147TA5365</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 x 22 mm							
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller arm	Gland PG 11	1		1	3	<a href="#">128TA3028</a>
	Roller arm	Gland PG 11	2		2	3	<a href="#">147TA5367</a>
	Roller arm	Gland PG 11	1		1	10	<a href="#">147TA5358</a>
	Roller arm	Gland PG 11	1		1	3	<a href="#">147TA5360</a>
	Roller arm	Gland PG 11		1	1	3	<a href="#">147TA2129</a>
	Roller arm	Gland PG 11	1		1	3	<a href="#">147TA5353</a>
	Roller arm	Gland PG 11	2			3	<a href="#">165TA1223</a>
	Roller arm	Gland PG 11	1		1	3	<a href="#">147TA5361</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Gland PG 13,5	1		1	6	<a href="#">147TA5340</a>
Roller arm	Gland PG 13,5	1		1	10	<a href="#">147TA5342</a>
Roller arm	Gland PG 13,5			2	10	<a href="#">146TA5719</a>
Roller arm	Gland PG 13,5			2	6	<a href="#">147TA5344</a>
Roller arm	Gland PG 13,5	1		1	3	<a href="#">146TA8750</a>
Roller arm	Gland PG 13,5	1		1	3	<a href="#">147TA5339</a>
Roller arm	Gland PG 13,5	1		1	3	<a href="#">147TA5338</a>
Roller arm	Gland PG 13,5	1		1	3	<a href="#">147TA1261</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Gland PG 13,5	1		1	3	<a href="#">147TA5343</a>
Roller plunger	Cable (10470 mm)	1		1	4	<a href="#">147TA5321</a>
Roller plunger	Cable (1670 mm)			1	4	<a href="#">147TA1678</a>
Roller plunger	Cable (5750 mm)	1		1	4	<a href="#">147TA1676</a>
Roller plunger	Cable with connector (1890 mm)	2			0,1	<a href="#">165TA1217</a>
Roller plunger	Cable with connector (460 mm)	1		1	3	<a href="#">165TA1134</a>
Roller plunger	Fixed connector	1		1	3	<a href="#">147TA5318</a>
Roller plunger	Gland M16 x 1,5	1		1	3	<a href="#">147TA5299</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Gland M20 x 1,5	1		1	6	<a href="#">147TA5297</a>
Roller plunger	Gland M20 x 1,5	1		1	4	<a href="#">147TA5356</a>
Roller plunger	Gland M20 x 1,5	1		1	4	<a href="#">146TA8931</a>
Roller plunger	Gland M20 x 1,5	1		1	3	<a href="#">147TA5296</a>
Roller plunger	Gland M20 x 1,5	1		1	4	<a href="#">147TA1667</a>
Roller plunger	Gland NPT 1/2	1		2	1,5	<a href="#">147TA5317</a>
Roller plunger	Gland PG 11	1		1	3	<a href="#">147TA5312</a>
Roller plunger	Gland PG 11	1		1	3	<a href="#">147TA5313</a>

# LIMIT SWITCHES

## LIMIT SWITCHES



**Centre distance: 20 x 22 mm**

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Gland PG 11	1		1	3	<a href="#">147TA5310</a>
Roller plunger	Gland PG 13,5	1		1	6	<a href="#">147TA5305</a>
Roller plunger	Gland PG 13,5	1		1		<a href="#">165TA1148</a>
Roller plunger	Gland PG 13,5	1		1	6	<a href="#">147TA5306</a>
Roller plunger	Gland PG 13,5	1		1	3	<a href="#">147TA5303</a>
Roller plunger	Gland PG 13,5	1		1	6	<a href="#">147TA5302</a>
Roller plunger	Gland PG 13,5	1		1	3	<a href="#">147TA5304</a>
Special	Gland M20 x 1,5	1		1	10	<a href="#">147TA5620</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Special	Gland M20 x 1,5	1		1	3	<a href="#">151TA1429</a>
Special	Gland PG 11	1		1	3	<a href="#">146TA5961</a>
Without	Special	1		2	1,5	<a href="#">147TA5638</a>
Without	Special	1		1	3	<a href="#">147TA5637</a>
Without	Special			2	3	<a href="#">147TA5717</a>
Without	Special	2			3	<a href="#">146TA6071</a>
Without	Special	1		1	0,01	<a href="#">147TA5746</a>
Without	Special	1		1	3	<a href="#">147TA5708</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 x 22 x 40 x 42 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Cable with connector (2540 mm)	1		1	3	<a href="#">146TA3008</a>
Adjustable roller arm	Cable with connector (3180 mm)	1		1	3	<a href="#">147TA5469</a>
Adjustable roller arm	Gland PG 11	1		1	3	<a href="#">147TA5467</a>
Adjustable roller arm	Gland PG 11	2			3	<a href="#">147TA5468</a>
Lever with roller	Gland M20 x 1,5	1		1	6	<a href="#">147TA1707</a>
Lever with roller	Gland PG 13,5	1		1	3	<a href="#">165TA1151</a>
Roller arm	Cable with connector (2950 mm)		1		3	<a href="#">147TA5466</a>
Roller arm	Gland M16 x 1,5	1		1	3	<a href="#">147TA5459</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 x 40 x 42 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Gland M16 x 1,5	1		1	3	<a href="#">146TA8056</a>
Roller arm	Gland M20 x 1,5	1		1	3	<a href="#">147TA1263</a>
Roller arm	Gland NPT 1/2	1		1	3	<a href="#">165TA1090</a>
Roller arm	Gland PG 11	1		1	3	<a href="#">146TA5924</a>
Roller arm	Gland PG 11	1		1	3	<a href="#">147TA5463</a>
Roller arm	Gland PG 11	1		1	3	<a href="#">146TA8080</a>
Roller arm	Gland PG 11			2	3	<a href="#">147TA5465</a>
Roller arm	Gland PG 11 (450 mm)			2	3	<a href="#">147TA5464</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 20 x 22 x 40 x 42 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Gland M16 x 1,5	1		1		<a href="#">146TA8401</a>
Roller plunger	Gland M20 x 1,5	1		1	10	<a href="#">147TA5451</a>
Roller plunger	Gland PG 13,5			2	3	<a href="#">147TA5457</a>
Roller plunger	Gland PG 13,5	2		2	10	<a href="#">147TA5455</a>
Roller plunger	Gland PG 13,5	1		1	6	<a href="#">147TA5453</a>
Without	Gland M16 x 1,5	1		1	3	<a href="#">147TA5740</a>
Without	Gland M16 x 1,5	1		1	3	<a href="#">147TA5631</a>
Without	Gland M16 x 1,5			2	3	<a href="#">147TA5633</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 x 40 x 42 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Without	Gland PG 11			2	3	<a href="#">147TA5619</a>
Without	Gland PG 11	2			3	<a href="#">146TA6074</a>

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 20 x 22 x 51 x 53 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Gland PG 11	2			10	<a href="#">147TA2147</a>

# LIMIT SWITCHES



Centre distance: 21 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with roller	Fixed connector	1		1	6	<a href="#">147TA5481</a>
Pin plunger	Cable with connector (1870 mm)	1			8	<a href="#">146TA4079</a>
Pin plunger	Gland M20 x 1,5	1		2	8	<a href="#">147TA5660</a>
Pin plunger	Gland PG 11	1		1	8	<a href="#">147TA5655</a>
Pin plunger	Special	1		1	6	<a href="#">147TA5656</a>
Roller arm	Fixed connector			2	8	<a href="#">146TA5038</a>
Roller arm	Fixed connector			2	8	<a href="#">146TA5064</a>
Roller arm	Fixed connector	1		1	6	<a href="#">147TA5476</a>

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 21 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Fixed connector	1		1	6	<a href="#">147TA5479</a>
Roller arm	Fixed connector	1		1		<a href="#">147TA5477</a>
Roller arm	Gland M20 x 1,5	1		1	3	<a href="#">147TA5475</a>
Roller plunger	Cable (1000 mm)	1		1	6	<a href="#">147TA5473</a>
Roller plunger	Cable (285 mm)	1			6	<a href="#">146TA4299</a>
Roller plunger	Fixed connector	1		1	6	<a href="#">147TA5472</a>

# LIMIT SWITCHES



Centre distance: 21 x 56 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Cable (1025 mm)	1		1	5	<a href="#">151TA3529</a>
Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Special	1		1	5	<a href="#">136TA2927</a>
Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Special	1		1	5	<a href="#">147TA5488</a>
Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Cable (590 mm)	1			5	<a href="#">146TA1981</a>

# LIMIT SWITCHES



## LIMIT SWITCHES

**Centre distance: 21,2 mm**

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Fixed connector	2			8	<a href="#">147TA5483</a>
Roller arm	Gland M20 x 1,5	1		1	8	<a href="#">106TA2571</a>
Roller arm	Gland M20 x 1,5	2			8	<a href="#">147TA5482</a>

# LIMIT SWITCHES



Centre distance: 21,3 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Pin plunger	Special	1		1	8	<a href="#"><u>146TA6308</u></a>

LIMIT SWITCHES

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 21,8 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Fixed connector	1		1	5	<a href="#">146TA5280</a>

# LIMIT SWITCHES



Centre distance: 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with adjustable steel pin	Fixed connector			2	8	<a href="#">147TA5642</a>
Lever with roller	Cable with connector (1600 mm)			1	8	<a href="#">146TA5039</a>
Lever with roller	Cable with connector (605 mm)			1	8	<a href="#">110TA9016</a>
Lever with roller	Fixed connector	1		1	8	<a href="#">147TA5497</a>
Lever with roller	Fixed connector	1		1	4	<a href="#">147TA5498</a>
Lever with roller	Fixed connector	1		1	5	<a href="#">147TA5499</a>
Pin plunger	Fixed connector			2	8	<a href="#">147TA5647</a>
Pin plunger	Fixed connector	1		1	8	<a href="#">147TA5650</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Pin plunger	Fixed connector	1		1	8	<a href="#">147TA5658</a>
Pin plunger	Fixed connector	1		1	6	<a href="#">147TA5648</a>
Pin plunger	Special	1		1		<a href="#">165TA1112</a>
Pin plunger	Special	1		1	8	<a href="#">146TA8634</a>
Roller arm	Fixed connector	1		1	6	<a href="#">147TA5492</a>
Roller plunger	Cable (2020 mm)		1			<a href="#">147TA5490</a>
Roller plunger	Fixed connector	2			5	<a href="#">165TA1218</a>
Roller plunger	Fixed connector	1		1	8	<a href="#">146TA5084</a>

# LIMIT SWITCHES



Centre distance: 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Fixed connector	1		1	6	<a href="#">146TA5186</a>
Roller plunger	Fixed connector	1		1	6	<a href="#">147TA5489</a>
Roller plunger	Gland M20 x 1,5			2	3	<a href="#">146TA9186</a>

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 22 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Gland PG 11	1		1	10	<a href="#">147TA2156</a>

# LIMIT SWITCHES

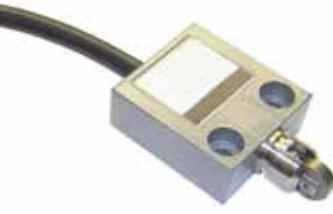


Centre distance: 22 x 23 mm

	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Pin plunger	Gland M16 x 1,5	1		1	3	<a href="#">165TA1128</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 25 mm							
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Flexible steel pin	Gland NPT 1/2		1		15	<a href="#">123TA2016</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Head	Cable (1040 mm)		1		5	<a href="#">147TA5761</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller arm	Gland M20 x 1,5	1		1	10	<a href="#">147TA5520</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller plunger	Cable (1000 mm)		1		0,3	<a href="#">147TA5511</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller plunger	Cable (1050 mm)	1		1	6	<a href="#">146TA7278</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller plunger	Cable (2010 mm)	1		1	1,5	<a href="#">146TA8400</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller plunger	Cable (2860 mm)		1		10	<a href="#">147TA2103</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller plunger	Cable (3170 mm)	1		1	2	<a href="#">147TA5507</a>

# LIMIT SWITCHES



Centre distance: 25 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Cable (390 mm)			1	3	<a href="#">165TA1078</a>
Roller plunger	Cable + cable with connector (990 mm)	1		1	10	<a href="#">147TA5515</a>
Roller plunger	Cable with connector (1025 mm)	1		1	10	<a href="#">147TA5516</a>
Roller plunger	Cable with connector (1133 mm)		1		10	<a href="#">147TA5519</a>
Roller plunger	Cable with connector (1550 mm)			1	10	<a href="#">147TA2168</a>
Roller plunger	Cable with connector (500 mm)		1		0,3	<a href="#">146TA6837</a>
Roller plunger	Cable with connector (560 mm)	1		1	6	<a href="#">146TA6860</a>

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 25,4 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Cable (1000 mm)	1		1	10	<a href="#">165TA1153</a>

# LIMIT SWITCHES



Centre distance: 26 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Cable (1065 mm)	1		1		<a href="#">165TA1173</a>



# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 27 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with roller	Gland M16 x 1,5	1		1	6	<a href="#">147TA5526</a>
Lever with roller	Gland M16 x 1,5	1		1	6	<a href="#">147TA5527</a>

# LIMIT SWITCHES



LIMIT SWITCHES

Centre distance: 29,5 x 67,5 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Gland PG 11		1		5	<a href="#">147TA5530</a>



# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 30 x 60 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Adjustable roller arm	Gland M20 x 1,5	1		1	4	<a href="#">105TA4735</a>
Adjustable roller arm	Gland PG 13,5	1		1	3	<a href="#">147TA5571</a>
Adjustable roller arm	Gland PG 13,5	1		1	6	<a href="#">147TA5570</a>
Adjustable roller arm	Gland PG 13,5	2			3	<a href="#">146TA8752</a>
Head	Gland M20 x 1,5	1		1	4	<a href="#">147TA5722</a>
Pin plunger	Gland M20 x 1,5	1		1	6	<a href="#">165TA1194</a>
Roller arm	Gland M20 x 1,5	1		1	4	<a href="#">147TA5550</a>
Roller arm	Gland M20 x 1,5	1		1	4	<a href="#">147TA5549</a>

# LIMIT SWITCHES



Centre distance: 30 x 60 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Gland M20 x 1,5	1		1	4	<a href="#">147TA5555</a>
Roller arm	Gland M20 x 1,5			2	15	<a href="#">147TA5558</a>
Roller arm	Gland M20 x 1,5	1		1	2	<a href="#">147TA5552</a>
Roller arm	Gland M20 x 1,5	1		1	4	<a href="#">147TA5551</a>
Roller arm	Gland M20 x 1,5			2	4	<a href="#">147TA5556</a>
Roller arm	Gland PG 13,5	2		2	3	<a href="#">146TA6311</a>
Roller arm	Gland PG 13,5	1		1	2	<a href="#">147TA5563</a>
Roller arm	Gland PG 13,5			2	10	<a href="#">146TA9183</a>

# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 30 x 60 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Gland PG 13,5	1		1	3	<a href="#">147TA5559</a>
Roller plunger	Gland M20 x 1,5			2	2	<a href="#">147TA5544</a>
Roller plunger	Gland M20 x 1,5	1		1	4	<a href="#">147TA5538</a>
Roller plunger	Gland M20 x 1,5	1		1	2	<a href="#">147TA5543</a>
Roller plunger	Gland M20 x 1,5	1		1	3	<a href="#">147TA5541</a>
Roller plunger	Gland NPT 1/2	1		1	3	<a href="#">147TA5548</a>
Roller plunger	Gland NPT 1/2	1		1	3	<a href="#">126TA5415</a>
Roller plunger	Gland PG 13,5	1		1	2	<a href="#">147TA5546</a>

# LIMIT SWITCHES



Centre distance: 30 x 60 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Gland PG 13,5			2	3	<a href="#">138TA7099</a>
Roller plunger	Gland PG 13,5	1		1	2	<a href="#">147TA5545</a>
Special	Gland M20 x 1,5	1		1	6	<a href="#">146TA9604</a>
Without	Gland M20 x 1,5	2		2	3	<a href="#">147TA5690</a>
Without	Gland PG 13,5	1		1	3	<a href="#">146TA6054</a>
Without	Gland PG 13,5	2		2	3	<a href="#">165TA1207</a>
Without	Gland PG 13,5	1		1	3	<a href="#">147TA5689</a>
Without	Gland PG 13,5	1		1	3	<a href="#">147TA5679</a>

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 33 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Special		1		0,1	<a href="#">147TA5582</a>

# LIMIT SWITCHES



Centre distance: 39 x 42 x 48 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Double roller	Gland M20 x 1,5	1		1	10	<a href="#"><u>147TA5587</u></a>

LIMIT SWITCHES

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 40 mm

	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller arm	Fixed connector			2	3	<a href="#">147TA5588</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Special	Cable (4460 mm)	2			6	<a href="#">147TA5714</a>

# LIMIT SWITCHES



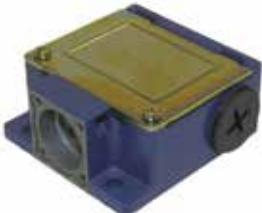
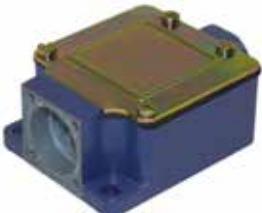
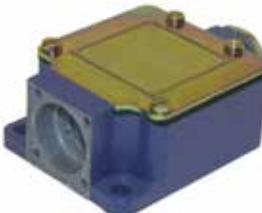
Centre distance: 40 x 59 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Double roller	Gland M20 x 1,5	2			3	<a href="#">165TA1212</a>



# LIMIT SWITCHES

## LIMIT SWITCHES

Centre distance: 41 mm							
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Adjustable roller arm	Gland PG 13,5	1		1	3	<a href="#">147TA5597</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Pin plunger	Gland PG 11	1		1	3	<a href="#">106TA2565</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller arm	Gland PG 11	1		1	3	<a href="#">106TA2566</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller plunger	Gland PG 11	1		1	4	<a href="#">147TA5593</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Without	Gland M20 x 1,5	1		1	3	<a href="#">147TA5688</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Without	Gland NPT 1/2	1		1	3	<a href="#">147TA5686</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Without	Gland PG 11	1		1	3	<a href="#">147TA5654</a>
	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Without	Gland PG 13,5	1		1	3	<a href="#">146TA6056</a>

# LIMIT SWITCHES



Centre distance: 41 x 71 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with roller	Gland NPT 1/2		2		10	<a href="#"><u>147TA5601</u></a>

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 42 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Pin plunger	Gland PG 13,5		1		11	<a href="#">147TA5756</a>

# LIMIT SWITCHES



Centre distance: 66 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Head	Gland NPT 1/2	1		1	10	<a href="#">147TA5643</a>
Without	Gland NPT 1/2	2		2	10	<a href="#">147TA5685</a>

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 67 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Pin plunger	Gland PG 13,5	1		1	3	<a href="#">147TA5718</a>

# LIMIT SWITCHES



Centre distance: 68 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Pin plunger	Gland M20 x 1,5 (16 mm)		1			<a href="#">146TA5708</a>



# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 71 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with roller	Gland PG 9		1			<a href="#">165TA1099</a>

# LIMIT SWITCHES



Centre distance: 72 x 40 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Special	Gland PG 13,5	1		1	10	<a href="#"><u>147TA5697</u></a>

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 74 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with roller	Gland PG 9		1		6	<a href="#"><u>147TA5613</u></a>

# LIMIT SWITCHES



Centre distance: 75 x 150 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller arm	Special	2		4		<a href="#"><u>147TA5615</u></a>

LIMIT SWITCHES

# LIMIT SWITCHES



## LIMIT SWITCHES

### Centre distance: Special

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Pin plunger	Cable (1050 mm)	1		1	6	<a href="#">147TA5670</a>
Roller plunger	Cable (2065 mm)	1		1	6	<a href="#">146TA8668</a>



**LIMIT SWITCHES**  
**(2 pieces)**

# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 20 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Lever with roller	Cable with connector (350 mm)	2		2	4	<a href="#">146TA8178</a>

# LIMIT SWITCHES



Centre distance: 20 x 22 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Roller plunger	Fixed connector	2		2	3	<a href="#">139TA5085</a>



# LIMIT SWITCHES



## LIMIT SWITCHES

Centre distance: 21 x 56 mm

	Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
	Roller arm	Cable with connector (290 mm)	2		2	5	<a href="#">146TA8422</a>
	Roller arm	Cable with connector (300 mm)	2		2	5	<a href="#">146TA9190</a>

# LIMIT SWITCHES



LIMIT SWITCHES

Centre distance: 88 x 95 mm

Type of lever	Type of connection	Qty. of NO contacts	Qty. of CO contacts	Qty. of NC contacts	Current A	REF
Special	Gland PG 13,5	2		3	6	<a href="#"><u>146TA5959</u></a>





## NOTES

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# TOGGLE SWITCHES

# TOGGLE SWITCHES



## TECHNICAL SHEET



## TECHNICAL SHEET

## TOGGLE SWITCH

Group  
**02-03-14-00**

Example



Customer details

Type of machine: .....

Price inquiry

Serial n° machine: .....

Order

 QTY-CON ..... Number of connections

TY-CON ..... Type of the connection:

*CON = connector*

*F2,8 = blade 2,8 mm*

*F4,8 = blade 4,8 mm*

*F6,3 = blade 6,3 mm*

*F9,5 = blade 9,5 mm*

*PIN = pin*

*SCRHO = screw hole*

*SCR = screw*

*SCRF = screw blade*

*SCRS = screw step*

*SO = solder connection*

*ST = stud*

*WIRE = wire*

*WC = wire with connector*

*WP = wire with pin*

*SP = special*

QTY-PIN ..... Number of pins in connector

I ..... Current (A)

U1 ..... Minimum voltage (V)

U2 ..... Maximum voltage (V)

ACTU-PR ..... Actuator present (yes/no)

TY-ACTU ..... Type of the actuator:

*FL = flat*

*RO = round*

*FL-LOCK = flat with lock*

*RO-LOCK = round with lock*

*OP = optional*

L1 ..... Length of the actuator (mm)

D1 ..... Built-in diameter (mm)

L2 ..... Built-in length (mm)

W1 ..... Built-in width (mm)

L3 ..... Thread length for panel mount (mm)

# TOGGLE SWITCHES



## TECHNICAL SHEET

## TOGGLE SWITCHES

TA1 .....	Type of thread
SUB-TA1 .....	Subtype of thread
Pm1.....	Pitch (metric)
Pi1.....	Pitch (inch)
RH/LH.....	Right- or left-handed thread
L4 .....	Total length of the toggle switch (mm)
W2.....	Total width of the toggle switch (mm)
H1 .....	Total height of the toggle switch (mm)
D2 .....	Total diameter of the toggle switch (mm)
QTY-HO .....	Number of mounting holes
C1 .....	Shortest centre distance between mounting holes (mm)
C2 .....	Longest centre distance between mounting holes (mm)
D3 .....	Diameter of the mounting hole (mm)
L5 .....	Length of the cable (mm)
SRT-SWIT .....	Sort of the switch: <i>1-POLE = 1-pole 2-POLE = 2-pole 3-POLE = 3-pole 4-POLE = 4-pole X-POLE = X-pole SI-POLE = single-pole DO-POLE = double-pole TR-POLE = triple-pole FO-POLE = four-pole MUL-POLE = multi-pole SP = special</i>
TY-SWIT .....	Type of the switch: <i>SWIT-1 = ON-OFF SWIT-2 = ON-(OFF) SWIT-3 = (ON)-OFF SWIT-4 = ON-ON SWIT-5 = ON-(ON) SWIT-6 = ON-OFF-ON SWIT-7 = ON-OFF-(ON) SWIT-8 = (ON)-OFF-(ON) SWIT-9 = ON-ON-ON SWIT-10 = ON-ON-(ON) SWIT-11 = (ON)-ON-(ON) SWIT-12 = ON-NONE-ON SWIT-13 = ON-NONE-(ON) SWIT-14 = ON-ON-NONE SWIT-15 = (ON)-ON-NONE SWIT-16 = ON-(ON)-NONE SWIT-17 = ON-OFF-NONE SWIT-18 = (ON)-OFF-NONE SWIT-19 = ON-(OFF)-NONE SWIT-20 = OFF-ON-NONE SWIT-21 = (OFF)-ON-NONE SWIT-22 = OFF-(ON)-NONE SWIT-23 = ON-NONE-OFF SWIT-24 = ON-NONE-(OFF) SWIT-25 = (ON)-NONE-OFF SP = special</i>

# TOGGLE SWITCHES



## TECHNICAL SHEET



MAT-H..... Material of the housing:

*MET = metal*

*METPL = metal + plastic*

*PL = plastic*

MAT-ACTU .... Material of the actuator:

*MET = metal*

*METPL = metal + plastic*

*PL = plastic*

IP..... IP value/protection

CAP-PR..... Cap present (yes/no)

SYM-PR..... Symbol present (yes/no)

LHT-PR..... Light present:

*NO = no*

*YES = yes*

*OP = optional*

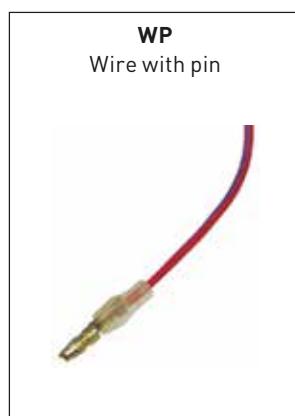
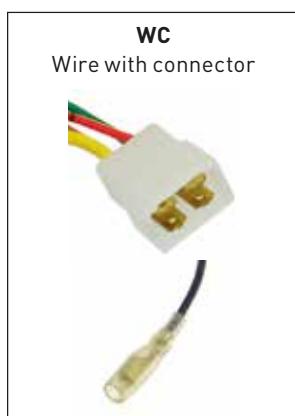
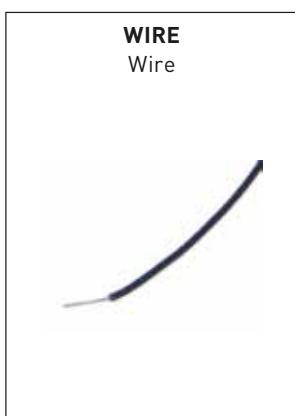
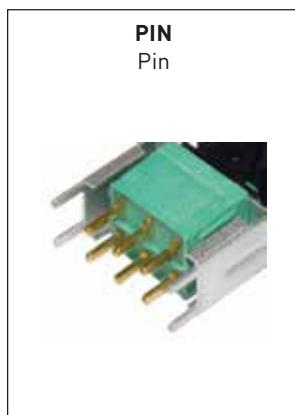
LET ..... Lettering: text or digits stated on the toggle switch

# TOGGLE SWITCHES



## TECHNICAL SHEET

### TY-CON: TYPE OF THE CONNECTION

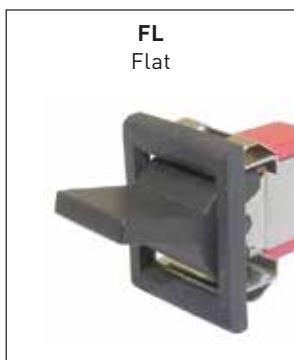


# TOGGLE SWITCHES

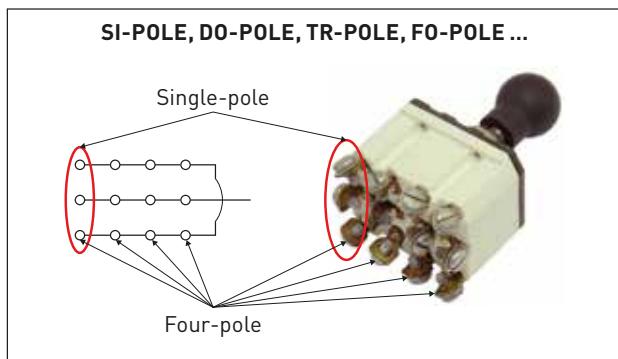
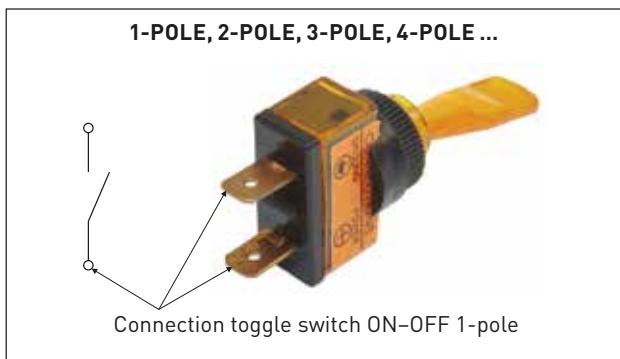


## TECHNICAL SHEET

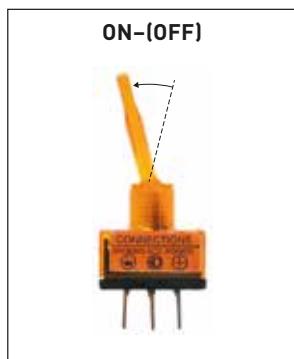
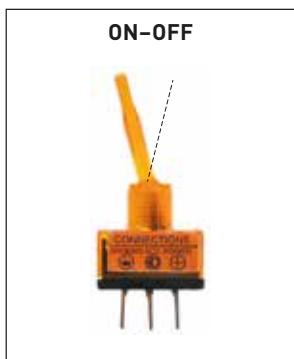
### TY-ACTU: TYPE OF THE ACTUATOR



### SRT-SWIT: SORT OF SWITCH



### TY-SWIT: TYPE OF THE SWITCH





## TECHNICAL SHEET

### CAP-PR: CAP PRESENT



### SYM-PR: SYMBOL PRESENT



### LHT-PR: LIGHT PRESENT



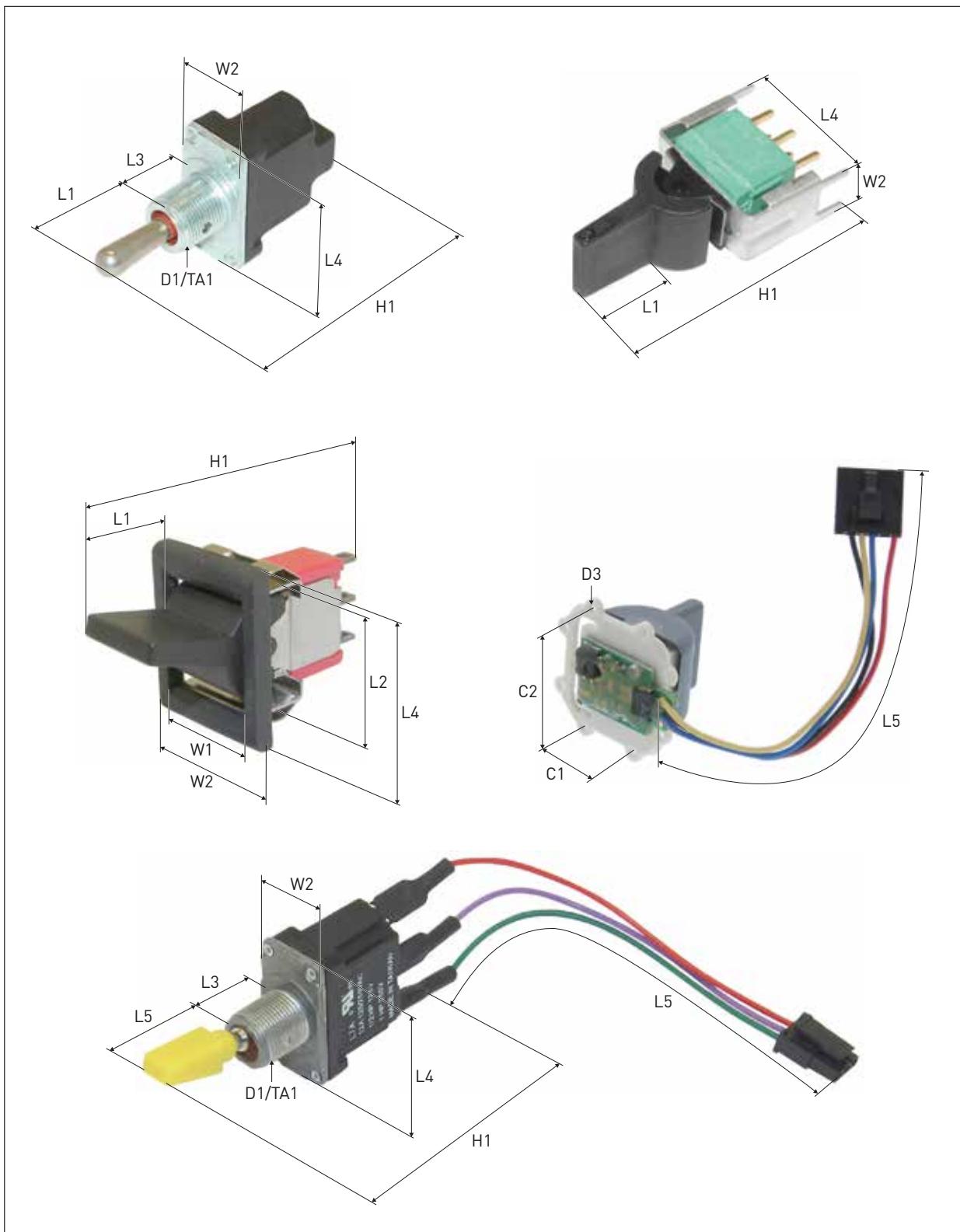
# TOGGLE SWITCHES



## TOGGLE SWITCHES

### TECHNICAL SHEET

### DIMENSIONS



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BNP Paribas Fortis 285-0448248-40 · IBAN BE02 2850 4482 4840 · SWIFT/BIC GEBABEBB

# TOGGLE SWITCHES



## TECHNICAL SHEET



## TECHNISCHE FICHE

### TUIMELSCHAKELAAR

Groep  
**02-03-14-00**

Voorbeeld



Gegevens klant

Type machine: .....

Prijsaanvraag

Serienr. machine: .....

Bestelling

	QTY-CON.....	Aantal aansluitingen
	TY-CON.....	Type aansluiting: <i>CON = connector</i> <i>F2,8 = vlakstekker 2,8 mm</i> <i>F4,8 = vlakstekker 4,8 mm</i> <i>F6,3 = vlakstekker 6,3 mm</i> <i>F9,5 = vlakstekker 9,5 mm</i> <i>PIN = pin</i> <i>SCRHO = schroef met gat</i> <i>SCR = schroef</i> <i>SCRF = vlakstekker met schroef</i> <i>SCRS = schroef in trappen</i> <i>SO = soldeerverbinding</i> <i>ST = bout</i> <i>WIRE = kabel</i> <i>WC = kabel met connector</i> <i>WP = kabel met pin</i> <i>SP = speciaal</i>
	QTY-PIN .....	Aantal pinnen in de connector
	I.....	Stroomsterkte (A)
	U1 .....	Minimum spanning (V)
	U2 .....	Maximum spanning (V)
	ACTU-PR.....	Bedieningsknop aanwezig (ja/nee)
	TY-ACTU .....	Type bedieningsknop: <i>FL = plat</i> <i>RO = rond</i> <i>FL-LOCK = plat met vergrendeling</i> <i>RO-LOCK = rond met vergrendeling</i> <i>OP = optioneel</i>
	L1 .....	Lengte van de bedieningsknop (mm)
	D1 .....	Inbouwdiameter (mm)
	L2 .....	Inbouwlengte (mm)
	W1.....	Inbouwbreedte (mm)
	L3 .....	Lengte van de schroefdraad bij paneelmontage (mm)

# TOGGLE SWITCHES



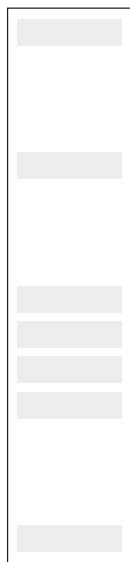
## TECHNICAL SHEET

TA1 .....	Type schroefdraad
SUB-TA1 .....	Subtype schroefdraad
Pm1.....	Spoed (metrisch)
Pi1.....	Spoed (inch)
RH/LH.....	Rechtse of linkse schroefdraad
L4 .....	Totale lengte van de tuimelschakelaar (mm)
W2.....	Totale breedte van de tuimelschakelaar (mm)
H1 .....	Totale hoogte van de tuimelschakelaar (mm)
D2 .....	Totale diameter van de tuimelschakelaar (mm)
QTY-HO .....	Aantal bevestigingsgaten
C1 .....	Kortste centerafstand van de bevestigingsgaten (mm)
C2 .....	Langste centerafstand van de bevestigingsgaten (mm)
D3 .....	Diameter van het bevestigingsgat (mm)
L5 .....	Lengte van de kabel (mm)
SRT-SWIT .....	Soort schakeling: <i>1-POLE = 1-polig</i> <i>2-POLE = 2-polig</i> <i>3-POLE = 3-polig</i> <i>4-POLE = 4-polig</i> <i>X-POLE = X-polig</i> <i>SI-POLE = enkelpolig</i> <i>DO-POLE = dubbelpolig</i> <i>TR-POLE = driepolig</i> <i>FO-POLE = vierpolig</i> <i>MUL-POLE = meerpolig</i> <i>SP = speciaal</i>
TY-SWIT .....	Type van schakeling: <i>SWIT-1 = AAN UIT</i> <i>SWIT-2 = AAN-(UIT)</i> <i>SWIT-3 = (AAN)-UIT</i> <i>SWIT-4 = AAN-AAN</i> <i>SWIT-5 = AAN-(AAN)</i> <i>SWIT-6 = AAN-UIT-AAN</i> <i>SWIT-7 = AAN-UIT-(AAN)</i> <i>SWIT-8 = (AAN)-UIT-(AAN)</i> <i>SWIT-9 = AAN-AAN-AAN</i> <i>SWIT-10 = AAN-AAN-(AAN)</i> <i>SWIT-11 = (AAN)-AAN-(AAN)</i> <i>SWIT-12 = AAN-GEEN-AAN</i> <i>SWIT-13 = AAN-GEEN-(AAN)</i> <i>SWIT-14 = AAN-AAN-GEEN</i> <i>SWIT-15 = (AAN)-AAN-GEEN</i> <i>SWIT-16 = AAN-(AAN)-GEEN</i> <i>SWIT-17 = AAN-UIT-GEEN</i> <i>SWIT-18 = (AAN)-UIT-GEEN</i> <i>SWIT-19 = AAN-(UIT)-GEEN</i> <i>SWIT-20 = UIT-AAN-GEEN</i> <i>SWIT-21 = (UIT)-AAN-GEEN</i> <i>SWIT-22 = UIT-(AAN)-GEEN</i> <i>SWIT-23 = AAN-GEEN-UIT</i> <i>SWIT-24 = AAN-GEEN-(UIT)</i> <i>SWIT-25 = (AAN)-GEEN-UIT</i> <i>SP = speciaal</i>

# TOGGLE SWITCHES



## TECHNICAL SHEET



MAT-H..... Materiaal van de behuizing:

*MET = metaal*

*METPL = metaal + plastic*

*PL = plastic*

MAT-ACTU .... Materiaal van de bediening:

*MET = metaal*

*METPL = metaal + plastic*

*PL = plastic*

IP..... IP-waarde

CAP-PR..... Kap aanwezig (ja/nee)

SYM-PR..... Symbool aanwezig (ja/nee)

LHT-PR..... Licht aanwezig:

*NO = nee*

*YES = ja*

*OP = optioneel*

LET ..... Opschrift: tekst of cijfers aanwezig op de tuimelschakelaar

# TOGGLE SWITCHES



## TECHNICAL SHEET



## FICHE TECHNIQUE

## INTERRUPTEUR À LEVIER

Groupe  
**02-03-14-00**

Exemple



Données client

Type machine : .....

Demande de prix

No. série machine : .....

Commande

	QTY-CON.....	Nombre de connexions
	TY-CON.....	Type de connexion :
	CON =	connecteur
	F2,8 =	fiche 2,8 mm
	F4,8 =	fiche 4,8 mm
	F6,3 =	fiche 6,3 mm
	F9,5 =	fiche 9,5 mm
	PIN =	cosse
	SCRHO =	trou avec vis
	SCR =	vis
	SCRF =	fiche avec vis
	SCRS =	vis à gradins
	SO =	connexion à souder
	ST =	goujons
	WIRE =	câble
	WC =	câble avec connecteur
	WP =	câble avec cosse
	SP =	spécial
	QTY-PIN .....	Nombre de cosses dans le connecteur
	I.....	Courant (A)
	U1 .....	Tension minimale (V)
	U2 .....	Tension maximale (V)
	ACTU-PR.....	Actionneur présent (oui/non)
	TY-ACTU .....	Type d'actionneur :
	FL =	plat
	RO =	rond
	FL-LOCK =	plat avec verrouillage
	RO-LOCK =	rond avec verrouillage
	OP =	en option
	L1 .....	Longueur de l'actionneur (mm)
	D1 .....	Diamètre de montage (mm)
	L2 .....	Longueur de montage (mm)
	W1.....	Largeur de montage (mm)
	L3 .....	Longueur de filetage pour montage sur panneau (mm)

# TOGGLE SWITCHES



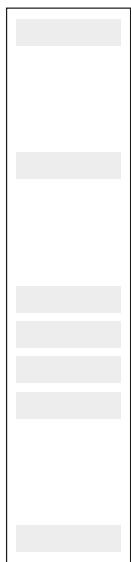
## TECHNICAL SHEET

TA1 .....	Type de filetage
SUB-TA1 .....	Sous-type de filetage
Pm1.....	Pas métrique
Pi1.....	Pas en pouce
RH/LH.....	Filetage à droite ou à gauche
L4 .....	Longueur totale de l'interrupteur à levier (mm)
W2.....	Largeur totale de l'interrupteur à levier (mm)
H1 .....	Hauteur totale de l'interrupteur à levier (mm)
D2 .....	Diamètre total de l'interrupteur à levier (mm)
QTY-HO .....	Nombre de trous de fixation
C1 .....	Plus petit entraxe des trous de fixation (mm)
C2 .....	Plus grand entraxe des trous de fixation (mm)
D3 .....	Diamètre des de fixation (mm)
L5 .....	Longueur du câble (mm)
SRT-SWIT .....	Sorte d'interrupteur :
<i>1-POLE</i>	= <i>unipolaire</i>
<i>2-POLE</i>	= <i>bipolaire</i>
<i>3-POLE</i>	= <i>tripolaire</i>
<i>4-POLE</i>	= <i>quadripolaire</i>
<i>X-POLE</i>	= <i>pôle X</i>
<i>SI-POLE</i>	= <i>pôle simple</i>
<i>DO-POLE</i>	= <i>pôle double</i>
<i>TR-POLE</i>	= <i>pôle triple</i>
<i>FO-POLE</i>	= <i>pôle quadruple</i>
<i>MUL-POLE</i>	= <i>multipolaire</i>
<i>SP</i>	= <i>spécial</i>
TY-SWIT .....	Type d'interrupteur :
<i>SWIT-1</i>	= <i>ON-OFF</i>
<i>SWIT-2</i>	= <i>ON-(OFF)</i>
<i>SWIT-3</i>	= <i>(ON)-OFF</i>
<i>SWIT-4</i>	= <i>ON-ON</i>
<i>SWIT-5</i>	= <i>ON-(ON)</i>
<i>SWIT-6</i>	= <i>ON-OFF-ON</i>
<i>SWIT-7</i>	= <i>ON-OFF-(ON)</i>
<i>SWIT-8</i>	= <i>(ON)-OFF-(ON)</i>
<i>SWIT-9</i>	= <i>ON-ON-ON</i>
<i>SWIT-10</i>	= <i>ON-ON-(ON)</i>
<i>SWIT-11</i>	= <i>(ON)-ON-(ON)</i>
<i>SWIT-12</i>	= <i>ON-NONE-ON</i>
<i>SWIT-13</i>	= <i>ON-NONE-(ON)</i>
<i>SWIT-14</i>	= <i>ON-ON-NONE</i>
<i>SWIT-15</i>	= <i>(ON)-ON-NONE</i>
<i>SWIT-16</i>	= <i>ON-(ON)-NONE</i>
<i>SWIT-17</i>	= <i>ON-OFF-NONE</i>
<i>SWIT-18</i>	= <i>(ON)-OFF-NONE</i>
<i>SWIT-19</i>	= <i>ON-(OFF)-NONE</i>
<i>SWIT-20</i>	= <i>OFF-ON-NONE</i>
<i>SWIT-21</i>	= <i>(OFF)-ON-NONE</i>
<i>SWIT-22</i>	= <i>OFF-(ON)-NONE</i>
<i>SWIT-23</i>	= <i>ON-NONE-OFF</i>
<i>SWIT-24</i>	= <i>ON-NONE-(OFF)</i>
<i>SWIT-25</i>	= <i>(ON)-NONE-OFF</i>
<i>SP</i>	= <i>spécial</i>

# TOGGLE SWITCHES



## TECHNICAL SHEET



MAT-H..... Matériaux du boîtier :

*MET = métal*

*METPL = métal plastique*

*PL = plastique*

MAT-ACTU .... Matériaux de l'actionneur :

*MET = métal*

*METPL = métal plastique*

*PL = plastique*

IP..... Valeur IP

CAP-PR..... Capuchon présent (oui/non)

SYM-PR..... Symbole présent (oui/non)

LHT-PR..... Lampe présente :

*NO = non*

*YES = oui*

*OP = en option*

LET ..... Inscriptions : texte ou chiffres présents sur l'interrupteur à levier



## TECHNICAL SHEET



## TECHNISCHES DATENBLATT

### KIPPSCHALTER

Gruppe  
**02-03-14-00**

Beispiel



Kundendaten

Maschinentyp: .....

Preisanfrage

Serien-Nr. Maschine: .....

Bestellung

 QTY-CON ..... Anzahl der Anschlüsse

TY-CON ..... Art des Anschlusses:

*CON = Stecker*

*F2,8 = Flachstecker 2,8 mm*

*F4,8 = Flachstecker 4,8 mm*

*F6,3 = Flachstecker 6,3 mm*

*F9,5 = Flachstecker 9,5 mm*

*PIN = Stift*

*SCRHO = Schraubenloch*

*SCR = Schraube*

*SCRF = Flachstecker mit Schraube*

*SCRS = Stufenschraube*

*SO = Lötanschluss*

*ST = Bolzen*

*WIRE = Kabel*

*WC = Kabel mit Stecker*

*WP = Kabel mit Stift*

*SP = Sonderanschluss*

 QTY-PIN ..... Anzahl der Stifte im Anschluss

I ..... Strom (A)

U1 ..... Minimale Spannung (V)

U2 ..... Maximale Spannung (V)

ACTU-PR ..... Aktuator vorhanden (ja/nein)

TY-ACTU ..... Art des Aktuators:

*FL = Flach*

*RO = Rund*

*FL-LOCK = Flach mit Verriegelung*

*RO-LOCK = Rund mit Verriegelung*

*OP = Optional*

L1 ..... Länge des Aktuators (mm)

D1 ..... Einbaudurchmesser (mm)

L2 ..... Eingebaute Länge (mm)

W1 ..... Eingebaute Breite (mm)

L3 ..... Länge des Gewindes für Tafeleinbau (mm)

# TOGGLE SWITCHES



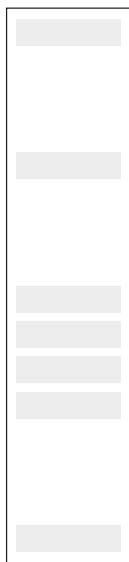
## TECHNICAL SHEET

TA1 .....	Art des Gewindes
SUB-TA1 .....	Unterart des Gewindes
Pm1.....	Steigung (metrisch)
Pi1.....	Steigung (Zoll)
RH/LH.....	Rechts- oder linkshändiges Gewinde
L4 .....	Gesamtlänge des Kippschalters (mm)
W2.....	Gesamtbreite des Kippschalters (mm)
H1 .....	Gesamthöhe des Kippschalters (mm)
D2 .....	Gesamtdurchmesser des Kippschalters (mm)
QTY-HO .....	Anzahl der Befestigungslöcher
C1 .....	Kürzester Mittenabstand zwischen Montagebohrungen (mm)
C2 .....	Längster Mittenabstand zwischen Montagebohrungen (mm)
D3 .....	Durchmesser der Montagebohrungen (mm)
L5 .....	Länge des Kabels (mm)
SRT-SWIT .....	Typ des Schalters: <i>1-POLE = 1-polig 2-POLE = 2-polig 3-POLE = 3-polig 4-POLE = 4-polig X-POLE = X-polig SI-POLE = Einzelpolig DO-POLE = Doppelpolig TR-POLE = Dreipolig FO-POLE = Vierpolig MUL-POLE = Mehrpolig SP = Sonderausführung</i>
TY-SWIT .....	Art des Schalters: <i>SWIT-1 = ON-OFF SWIT-2 = ON-(OFF) SWIT-3 = (ON)-OFF SWIT-4 = ON-ON SWIT-5 = ON-(ON) SWIT-6 = ON-OFF-ON SWIT-7 = ON-OFF-(ON) SWIT-8 = (ON)-OFF-(ON) SWIT-9 = ON-ON-ON SWIT-10 = ON-ON-(ON) SWIT-11 = (ON)-ON-(ON) SWIT-12 = ON-NONE-ON SWIT-13 = ON-NONE-(ON) SWIT-14 = ON-ON-NONE SWIT-15 = (ON)-ON-NONE SWIT-16 = ON-(ON)-NONE SWIT-17 = ON-OFF-NONE SWIT-18 = (ON)-OFF-NONE SWIT-19 = ON-(OFF)-NONE SWIT-20 = OFF-ON-NONE SWIT-21 = (OFF)-ON-NONE SWIT-22 = OFF-(ON)-NONE SWIT-23 = ON-NONE-OFF SWIT-24 = ON-NONE-(OFF) SWIT-25 = (ON)-NONE-OFF SP = Sonderausführung</i>

# TOGGLE SWITCHES



## TECHNICAL SHEET



MAT-H..... Material des Gehäuses:

*MET = Metall*

*METPL = Metallplastik*

*PL = Kunststoff*

MAT-ACTU .... Material des Aktuators:

*MET = Metall*

*METPL = Metallplastik*

*PL = Kunststoff*

IP..... IP-Wert/Schutz

CAP-PR..... Kappe vorhanden (ja/nein)

SYM-PR..... Symbol vorhanden (ja/nein)

LHT-PR..... Licht vorhanden:

*NO = Nein*

*YES = Ja*

*OP = Optional*

LET ..... Beschriftung: Text und/oder Ziffern auf dem Kippschalter

# TOGGLE SWITCHES

## TOGGLE SWITCHES

Nº of connections: 1

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	6,35	on-off-on	single-pole	Wire with connector	125 V 250 V	3	<a href="#">146TA2628</a>
	12	on-none-off	single-pole	Wire with connector	125 V 250 V	15	<a href="#">165TA7559</a>
	12	on-none-on	single-pole	Wire with connector	125 V 250 V	12	<a href="#">126TA5396</a>
	12	on-off-on	double-pole	Wire with connector	250 V	40	<a href="#">146TA3463</a>
	12	on-off-on	single-pole	Wire with connector	125 V 250 V	3	<a href="#">165TA7581</a>
	22	Special	Special	Wire with connector	12 V 24 V	15	<a href="#">147TA1144</a>
		{on}-off-{on}	Special	Connector	12 V 24 V	15	<a href="#">146TA8082</a>

# TOGGLE SWITCHES



Nº of connections: 2

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	off-(on)-none	single-pole	Blade 6,3 mm	125 V 250 V	12	<a href="#">126TA5391</a>
	12	off-(on)-none	single-pole	Screw step	125 V 250 V	10	<a href="#">123TA7603</a>
	12	on-none-off	double-pole	Wire with connector Wire with pin	125 V 250 V	12	<a href="#">146TA8107</a>
	12	on-none-off	single-pole	Blade 6,3 mm	125 V 250 V	10	<a href="#">165TA7551</a>
	12	on-none-off	single-pole	Blade 6,3 mm	125 V 250 V	15	<a href="#">126TA5394</a>
	12	on-none-off	single-pole	Blade 6,3 mm	125 V 277 V	15	<a href="#">165TA7548</a>
	12	on-none-off	single-pole	Blade 6,3 mm	250 V	15	<a href="#">146TA8487</a>
	12	on-none-off	single-pole	Screw	250 V	10	<a href="#">147TA1496</a>

# TOGGLE SWITCHES



## TOGGLE SWITCHES

Nº of connections: 2

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-none-off	single-pole	Screw step	125 V 250 V	12	<a href="#">146TA6091</a>
	12	on-off	1-pole	Blade 6,3 mm			<a href="#">165TA7579</a>
	12	on-off	1-pole	Wire with connector Wire with pin	125 V	6	<a href="#">146TA5478</a>
	12	on-off	single-pole	Screw step	125 V 250 V	10	<a href="#">165TA7568</a>
	12	on-off-none	single-pole	Blade 6,3 mm	125 V 250 V	6	<a href="#">146TA9890</a>
	12	on-off-none	single-pole	Blade 6,3 mm	125 V 250 V	10	<a href="#">165TA7554</a>
	12	on-off-none	single-pole	Blade 6,3 mm	125 V 250 V	12	<a href="#">165TA7586</a>
	12	on-off-none	single-pole	Blade 6,3 mm	125 V 277 V	15	<a href="#">165TA7543</a>

# TOGGLE SWITCHES



TOGGLE SWITCHES

Nº of connections: 2

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-none	single-pole	Screw	250 V	10	<a href="#">165TA7553</a>
	22	off-(on)-none	single-pole	Blade 6,3 mm	125 V 250 V	10	<a href="#">126TA5395</a>
		on-none-off	single-pole	Blade 6,3 mm	125 V 250 V	10	<a href="#">165TA7555</a>

# TOGGLE SWITCHES



## TOGGLE SWITCHES

Nº of connections: 3

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	6,35	{on}-off-{on}	single-pole	Solder connection	10 V 30 V	4	<a href="#">165TA7556</a>
	6,35	on-none-on	single-pole	Solder connection	10 V 30 V	4	<a href="#">165TA7575</a>
	6,35	on-off-on	single-pole	Solder connection	125 V 250 V	3	<a href="#">165TA7580</a>
	12	{on}-off-{on}	double-pole	Blade 6,3 mm	125 V 250 V	10	<a href="#">165TA7540</a>
	12	{on}-off-{on}	single-pole	Blade 6,3 mm	12 V 24 V	10	<a href="#">165TA7584</a>
	12	{on}-off-{on}	single-pole	Blade 6,3 mm	28 V 250 V	12	<a href="#">165TA7585</a>
	12	{on}-off-{on}	single-pole	Blade 6,3 mm	125 V 250 V	6	<a href="#">145TA1939</a>
	12	{on}-off-{on}	single-pole	Blade 6,3 mm	125 V 250 V	6	<a href="#">138TA7104</a>

# TOGGLE SWITCHES



Nº of connections: 3

Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
12	{on}-off-{on}	single-pole	Blade 6,3 mm	125 V 250 V	12	<a href="#">126TA5385</a>
12	{on}-off-{on}	single-pole	Blade 6,3 mm	125 V 250 V	12	<a href="#">126TA4743</a>
12	{on}-off-{on}	single-pole	Blade 6,3 mm	250 V 250 V	15	<a href="#">146TA9182</a>
12	{on}-off-{on}	single-pole	Blade 6,3 mm	250 V 250 V	15	<a href="#">165TA7558</a>
12	{on}-off-{on}	single-pole	Blade 6,3 mm	250 V	15	<a href="#">165TA7558</a>
12	{on}-off-{on}	single-pole	Screw blade	125 V 250 V	12	<a href="#">165TA7566</a>
12	{on}-off-{on}	single-pole	Screw step	125 V 250 V	10	<a href="#">165TA7587</a>
12	{on}-off-{on}	single-pole	Screw step	125 V 250 V	10	<a href="#">165TA7588</a>

# TOGGLE SWITCHES

## TOGGLE SWITCHES

Nº of connections: 3

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	{on}-off-{on}	single-pole	Screw step	125 V 250 V	12	<a href="#">165TA7578</a>
	12	{on}-off-{on}	single-pole	Screw step	125 V 277 V	10	<a href="#">128TA3040</a>
	12	{on}-off-{on}	single-pole	Solder connection	125 V 250 V	6	<a href="#">165TA7567</a>
	12	on-none-{on}	single-pole	Blade 6,3 mm	125 V 250 V	10	<a href="#">165TA7582</a>
	12	on-none-{on}	single-pole	Solder connection	125 V 250 V	6	<a href="#">165TA7565</a>
	12	on-none-on	double-pole	Wire	120 V 250 V	2	<a href="#">128TA3041</a>
	12	on-none-on	single-pole	Blade 6,3 mm	12 V		<a href="#">165TA7573</a>
	12	on-none-on	single-pole	Blade 6,3 mm	125 V 250 V	12	<a href="#">126TA4745</a>

# TOGGLE SWITCHES



Nº of connections: 3

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-none-on	single-pole	Blade 6,3 mm	125 V 277 V	15	<a href="#">165TA7563</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-none-on	single-pole	Blade 6,3 mm	250 V	15	<a href="#">146TA9093</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-none-on	single-pole	Screw step	125 V 250 V	12	<a href="#">146TA1783</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-none-on	single-pole	Solder connection	125 V 250 V	6	<a href="#">165TA7570</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-(on)	single-pole	Screw step	125 V	10	<a href="#">123TA7606</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-on	1-pole	Blade 6,3 mm	250 V	12	<a href="#">165TA7576</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-on	single-pole	Blade 6,3 mm	125 V 250 V	10	<a href="#">146TA9110</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-on	single-pole	Blade 6,3 mm	125 V 250 V	12	<a href="#">165TA7539</a>

# TOGGLE SWITCHES

## TOGGLE SWITCHES

Nº of connections: 3

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-on	single-pole	Blade 6,3 mm	125 V 250 V	15	<a href="#">165TA7571</a>
	12	on-off-on	single-pole	Blade 6,3 mm	250 V	10	<a href="#">165TA7549</a>
	12	on-off-on	single-pole	Blade 6,3 mm	250 V	10	<a href="#">146TA7050</a>
	12	on-off-on	single-pole	Blade 6,3 mm	250 V	10	<a href="#">165TA7577</a>
	12	on-off-on	single-pole	Screw	125 V 250 V	6	<a href="#">165TA7564</a>
	12	on-off-on	single-pole	Screw	250 V	10	<a href="#">165TA7537</a>
	12	on-off-on	single-pole	Screw	250 V	10	<a href="#">165TA7542</a>
	12	on-off-on	single-pole	Screw	250 V	15	<a href="#">165TA7541</a>

# TOGGLE SWITCHES



Nº of connections: 3

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-on	single-pole	Screw	250 V	15	<a href="#">146TA9188</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-on	single-pole	Screw step	125 V 250 V	12	<a href="#">165TA7574</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-on	single-pole	Screw step	250 V	15	<a href="#">165TA7557</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-on	single-pole	Solder connection	125 V 250 V	6	<a href="#">147TA2523</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-off-on	single-pole	Solder connection	125 V 250 V	6	<a href="#">165TA7561</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	22	on-none-(on)	single-pole	Screw step	125 V 277 V	10	<a href="#">123TA7602</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
		(on)-off-(on)	single-pole	Blade 6,3 mm	24 V	15	<a href="#">146TA6848</a>
	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
		(on)-off-(on)	single-pole	Blade 6,3 mm	28 V	4	<a href="#">165TA7535</a>



# TOGGLE SWITCHES

## TOGGLE SWITCHES

Nº of connections: 3

Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	on-none-on	single-pole	Blade 6,3 mm	24 V	4	<a href="#">165TA7546</a>
	on-off-on	single-pole	Blade 6,3 mm	125 V 250 V	10,1	<a href="#">165TA7552</a>

# TOGGLE SWITCHES



Nº of connections: 4

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	on-none-[off]	double-pole	Screw step	125 V 250 V	10	<a href="#">146TA9933</a>
	12	on-none-off	double-pole	Screw	125 V 250 V	12	<a href="#">165TA7560</a>
	12	on-none-off	double-pole	Screw step	125 V 250 V	15	<a href="#">165TA7583</a>
	12	on-off	2-pole	Blade 6,3 mm	250 V	15	<a href="#">165TA7547</a>
	12	on-off-none	double-pole	Screw	120 V 250 V	20	<a href="#">146TA8113</a>
	22	on-off-on	2-pole	Screw	125 V 250 V	10	<a href="#">144TA6878</a>
		on-none-off	2-pole	Blade 4,8 mm	125 V 250 V	6	<a href="#">165TA7545</a>
		on-none-on	single-pole	Blade 6,3 mm	24 V	15	<a href="#">165TA7562</a>

# TOGGLE SWITCHES



## TOGGLE SWITCHES

Nº of connections: 4

Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
		2-pole	Blade 6,3 mm	125 V 250 V	15	<a href="#">165TA7572</a>

# TOGGLE SWITCHES



TOGGLE SWITCHES

Nº of connections: 5

Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
22	on-off-on	single-pole	Blade 6,3 mm	12 V 24 V	15	<a href="#">165TA7569</a>
22	Special	Special	Blade 6,3 mm	12 V 24 V	15	<a href="#">146TA8101</a>

# TOGGLE SWITCHES



## TOGGLE SWITCHES

Nº of connections: 8

Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	Special		Blade 4,8 mm	28 V	4	<a href="#"><u>165TA7550</u></a>

# TOGGLE SWITCHES



TOGGLE SWITCHES

Nº of connections: 12

	Built-in diameter mm	Type of the switch	Sort of switch	Type of the connection	Voltage - min - max	Current A	REF
	12	{on}-off-{on}	four-pole	Screw step	125 V 277 V	10	<a href="#">123TA7617</a>
	12	on-none-on	four-pole	Blade 6,3 mm	125 V 277 V	15	<a href="#">165TA7536</a>
	12	on-off-on	four-pole	Screw step	125 V 250 V	10	<a href="#">164TA1252</a>
	12	Special	four-pole	Blade 6,3 mm	125 V 250 V	10	<a href="#">165TA7544</a>
	12	Special	four-pole	Solder connection	125 V 250 V	5	<a href="#">165TA7538</a>



## NOTES

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# ROCKER SWITCHES

# ROCKER SWITCHES



## TECHNICAL SHEET



## TECHNICAL SHEET

## ROCKER SWITCH

Group  
**02-03-15-00**

Example



Customer details

Type of machine: .....

Price inquiry

Serial n° machine: .....

Order

 QTY-CON..... Number of connections

TY-CON..... Type of connection:

*CON* = connector

*F2.8* = blade 2,8 mm

*F4.8* = blade 4,8 mm

*F6.3* = blade 6,3 mm

*F9.5* = blade 9,5 mm

*PCB* = PCB pin

*PIN* = pin

*SCR* = screw

*SO* = solder connection

*ST* = stud

*WIRE* = wire

*WC* = wire with connector

*WP* = wire with pin

*OTHER* = other

I ..... Current (A)

U1 ..... Minimum voltage (V)

U2 ..... Maximum voltage (V)

QTY-WIRE..... Number of wires

QTY-PIN ..... Number of pins

L1 ..... Built-in length of the rocker switch (mm)

W1 ..... Built-in width of the rocker switch (mm)

H1 ..... Built-in height of the rocker switch (mm)

D1 ..... Built-in diameter of the rocker switch (mm)

QTY-HO ..... Number of mounting holes

D2 ..... Diameter of the mounting holes (mm)

C1 ..... Shortest centre distance between mounting holes (mm)

C2 ..... Longest centre distance between mounting holes (mm)

L2 ..... Length of the cable (mm)

TA1 ..... Type of thread

# ROCKER SWITCHES



## TECHNICAL SHEET

- TA1-SUB..... Subtype of thread  
Pm1..... Pitch metric  
Pi1..... Pitch inch  
RH/LH..... Right- or left-handed thread  
QTY-ACTU .... Number of actuators  
BUT-PR..... Button present (yes/no)  
MAT-BUT .... Material of the button:  
    *MET = metal*  
    *METPL = metal/plastic*  
    *PL = plastic*  
MAT-H..... Material of the housing:  
    *MET = metal*  
    *METPL = metal/plastic*  
    *PL = plastic*  
IP..... IP value, dust- and water-resistance grade  
CAP-PR..... Protection cap present (yes/no)  
SYM-PR..... Symbol present:  
    *NO = no*  
    *YES = yes*  
    *OP = optional*  
COL-LENS .... Colour of the lens:  
    *BLA = black*  
    *BLU = blue*  
    *GRE = green*  
    *CLEAR = clear*  
    *O = orange*  
    *R = red*  
    *TINTBLA = tinted black*  
    *WHI = white*  
    *Y = yellow*  
    *OP = option*  
    *OTHER = other*  
LHT-PR..... Light present:  
    *NO = no*  
    *YES = yes*  
    *OP = optional*  
COL-LHT..... Colour of the light:  
    *BLU = blue*  
    *CLEAR = clear*  
    *CW = cool white*  
    *GRE = green*  
    *O = orange*  
    *R = red*  
    *WW = warm white*  
    *Y = yellow*  
    *OTHER = other*  
U3 ..... Voltage of the light (V)

# ROCKER SWITCHES



## TECHNICAL SHEET

FUN..... Function:

ACC = accessories

BW = bodywork

COM = combination

DRIVE = drive

LHT = light

UNI = universal

OTHER = other

SUB-FUN .... Subtype of function:

AGRI = accessories, agricultural

ARR = accessories, arrows

FORK = accessories, forks

HJ = accessories, work platform

HYD = accessories, hydraulics

LOCK1 = accessories, lock

PTO = accessories, power take-off

SUP = accessories, support

SW = accessories, sweeper

TRUC = accessories, truck

DEFR = bodywork, defroster

DOOR = bodywork, door

ELEC = bodywork, electrics

HEAT = bodywork, heating

HORN = bodywork, horn

SEAT = bodywork, seat

WIP = bodywork, windshield wipers

ENGI = drive, motor

FUEL = bodywork, fuel

HB = bodywork, handbrake

LOCK2 = bodywork, lock

START = bodywork, start

STEER = bodywork, steering

TRANS = bodywork, transmission

FOG = light, foglight

LR = light, left/right direction indicator

LHT = light, light

REVO = light, revolving/strobe light

WARN = light, warning

WORK = light, worklight

LET ..... Lettering: text and/or digits stated on the rocker switch

TY-POS1 ..... Type of position of the first actuator

TY-SWIT1 ..... Type of switch of the first actuator

TY-POS2 ..... Type of position of the second actuator

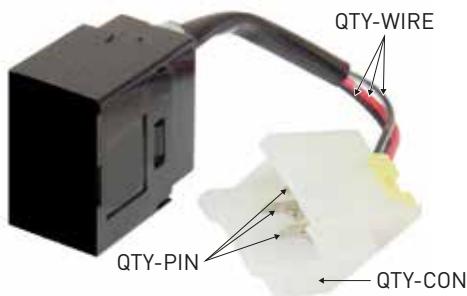
TY-SWIT2 ..... Type of switch of the second actuator

QTY-POLE .... Number of poles in the switch



## TECHNICAL SHEET

### QTY-CON/QTY-WIRE/QTY-PIN



### TY-CON: TYPE OF CONNECTION

**CON**  
Connector



**F2.8**  
Blade 2,8 mm



**F4.8**  
Blade 4,8 mm



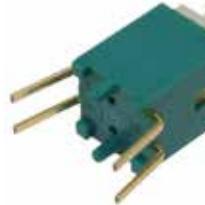
**F6.3**  
Blade 6,3 mm



**F9.5**  
Blade 9,5 mm



**PCB**  
PCB pin



**PIN**  
Pin



**SCR**  
Screw



**S0**  
Solder connection



**ST**  
Stud



**WIRE**  
Wire



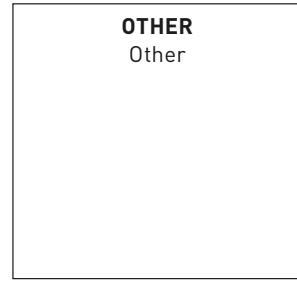
**WC**  
Wire with connector



**WP**  
Wire with pin



**OTHER**  
Other



# ROCKER SWITCHES



## QTY-ACTU: NUMBER OF ACTUATORS

1



2



## QTY-POLE: NUMBER OF POLES IN THE SWITCH

1 pole



2 pole



## BUT-PR: BUTTON PRESENT

Yes



No



## CAP-PR: PROTECTION CAP PRESENT



# ROCKER SWITCHES



## TECHNICAL SHEET

### SYM-PR: SYMBOL PRESENT

**YES**  
Yes



**NO**  
No



**OP**  
Optional



### COL-LENS: COLOUR OF THE LENS



### LHT-PR: LIGHT PRESENT

**YES**  
Yes



**NO**  
No



**OP**  
Optional



# ROCKER SWITCHES



## FUN/SUB-FUN

	AGRI	
	ARR	
	FORK	
	HJ	
ACC	HYD	
	LOCK1	
	PTO	
	SUP	
	SW	
	TRUC	

# ROCKER SWITCHES



## TECHNICAL SHEET

### FUN/SUB-FUN

	<b>DEFR</b>		
	<b>DOOR</b>		
	<b>ELEC</b>		
BW	<b>HEAT</b>		
	<b>HORN</b>		
	<b>SEAT</b>		
	<b>WIP</b>		

<b>COM</b>	
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	<b>ENGI</b>		
	<b>FUEL</b>		
	<b>HB</b>	(P)	
DRIVE	<b>LOCK2</b>		
	<b>START</b>		
	<b>STEER</b>		
	<b>TRANS</b>		

# ROCKER SWITCHES



## TECHNICAL SHEET

### FUN/SUB-FUN

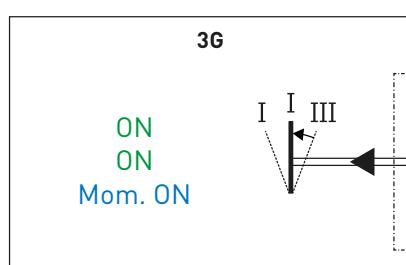
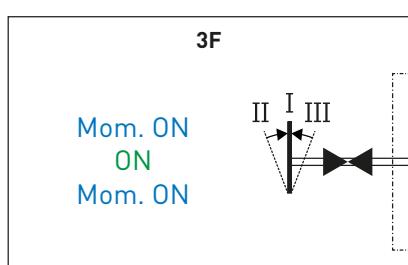
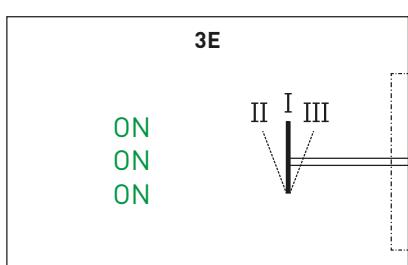
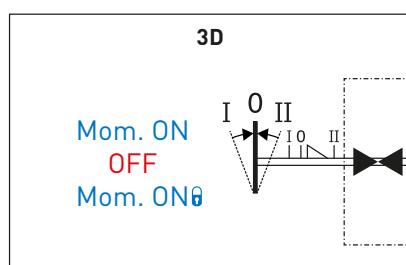
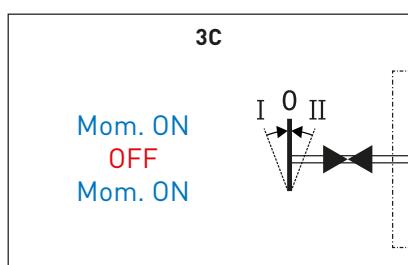
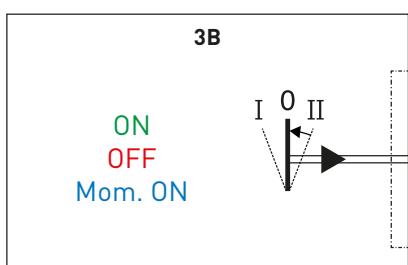
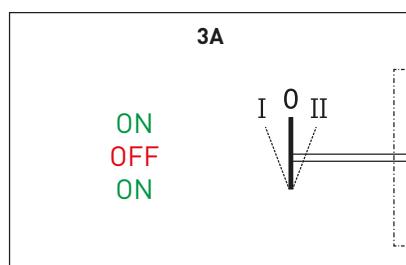
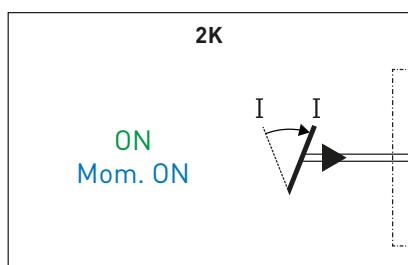
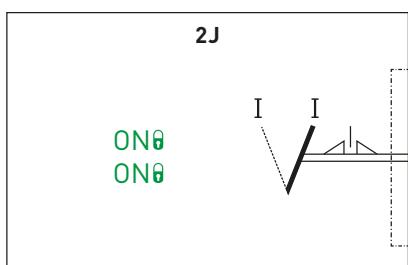
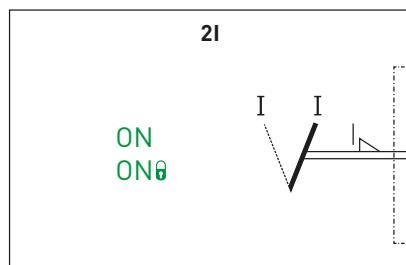
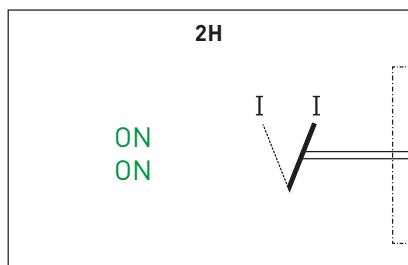
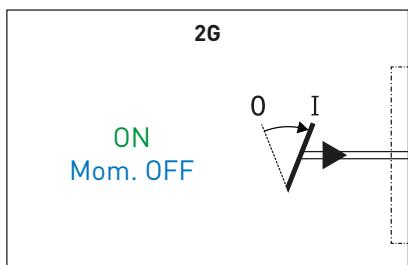
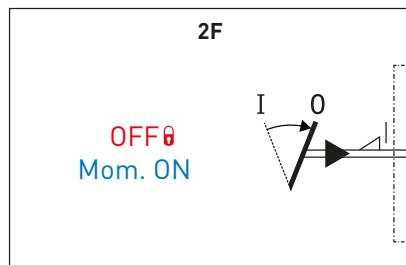
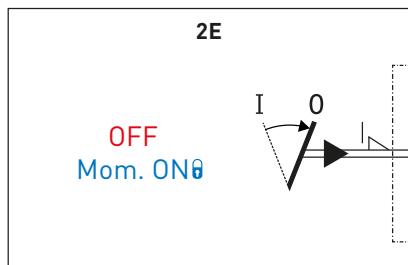
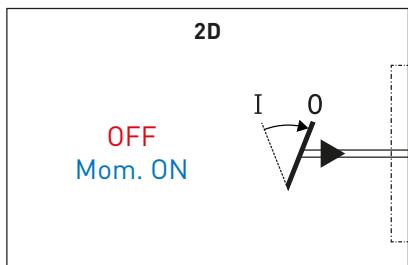
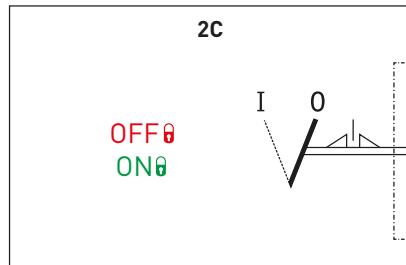
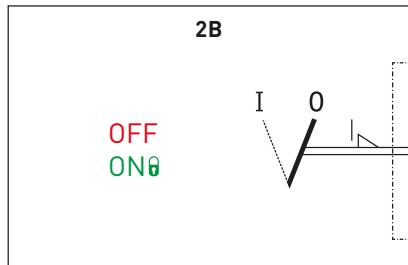
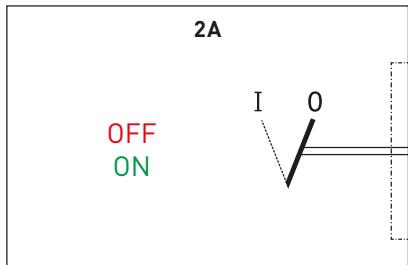
LHT	FOG		
	LR		
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OTHER			

# ROCKER SWITCHES



## TECHNICAL SHEET

### TY-POS 1 & 2



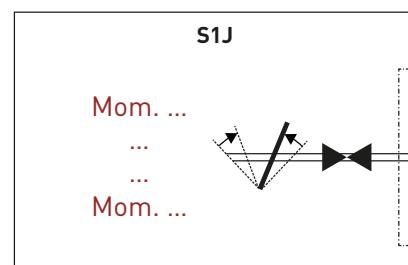
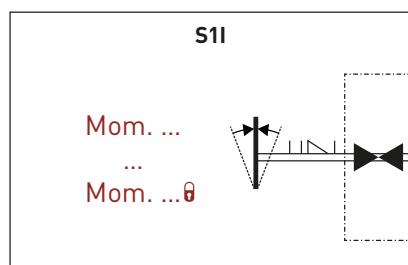
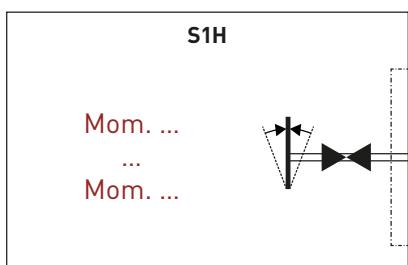
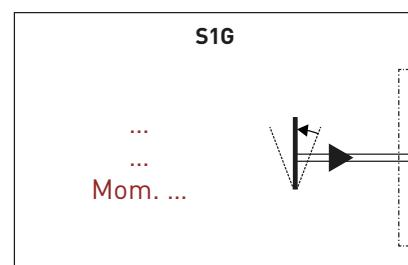
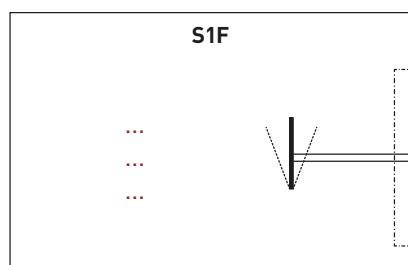
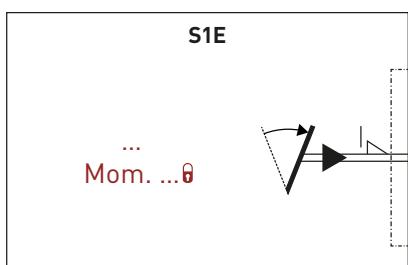
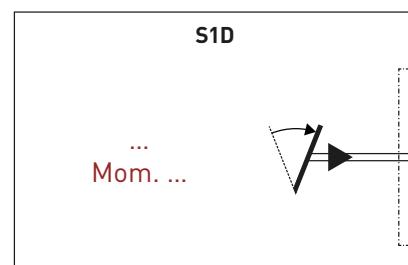
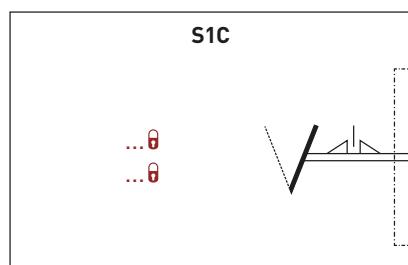
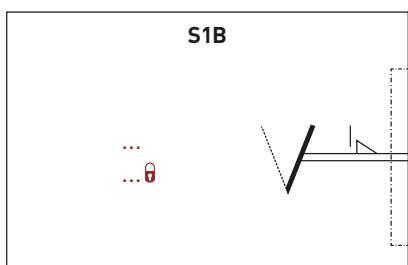
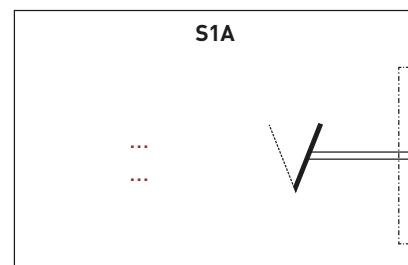
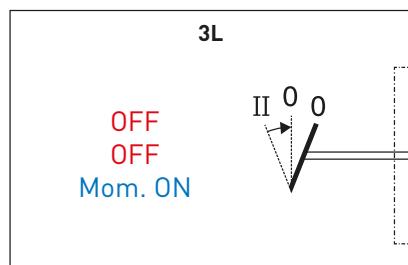
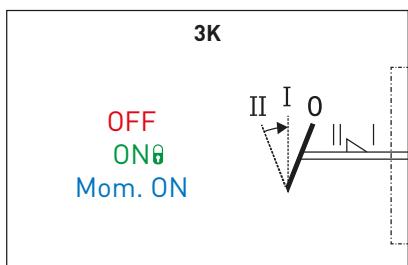
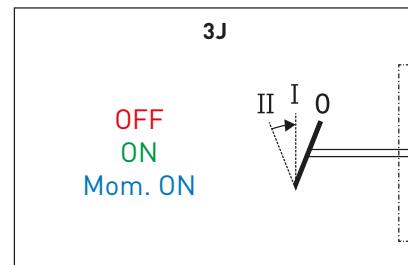
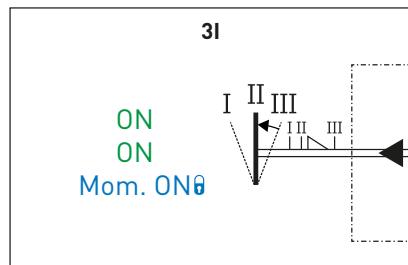
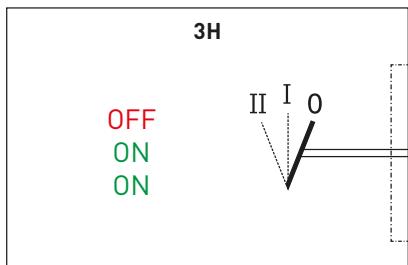
# ROCKER SWITCHES



## ROCKER SWITCHES

### TECHNICAL SHEET

#### TY-POS 1 & 2

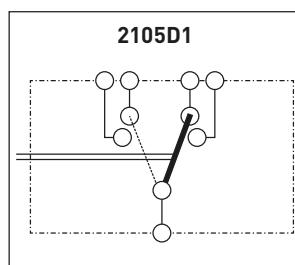
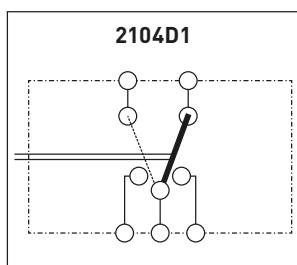
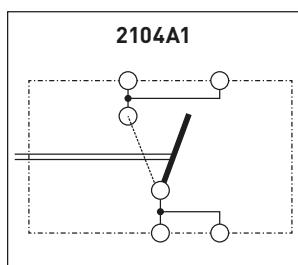
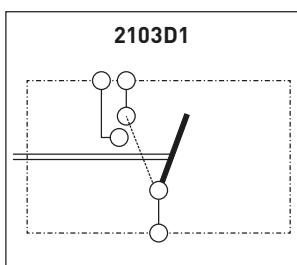
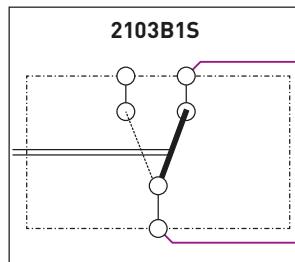
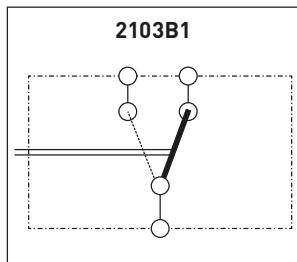
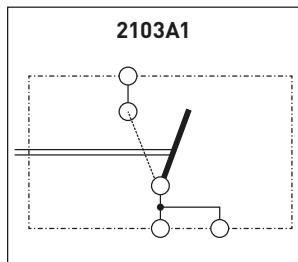
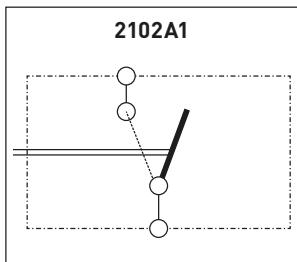
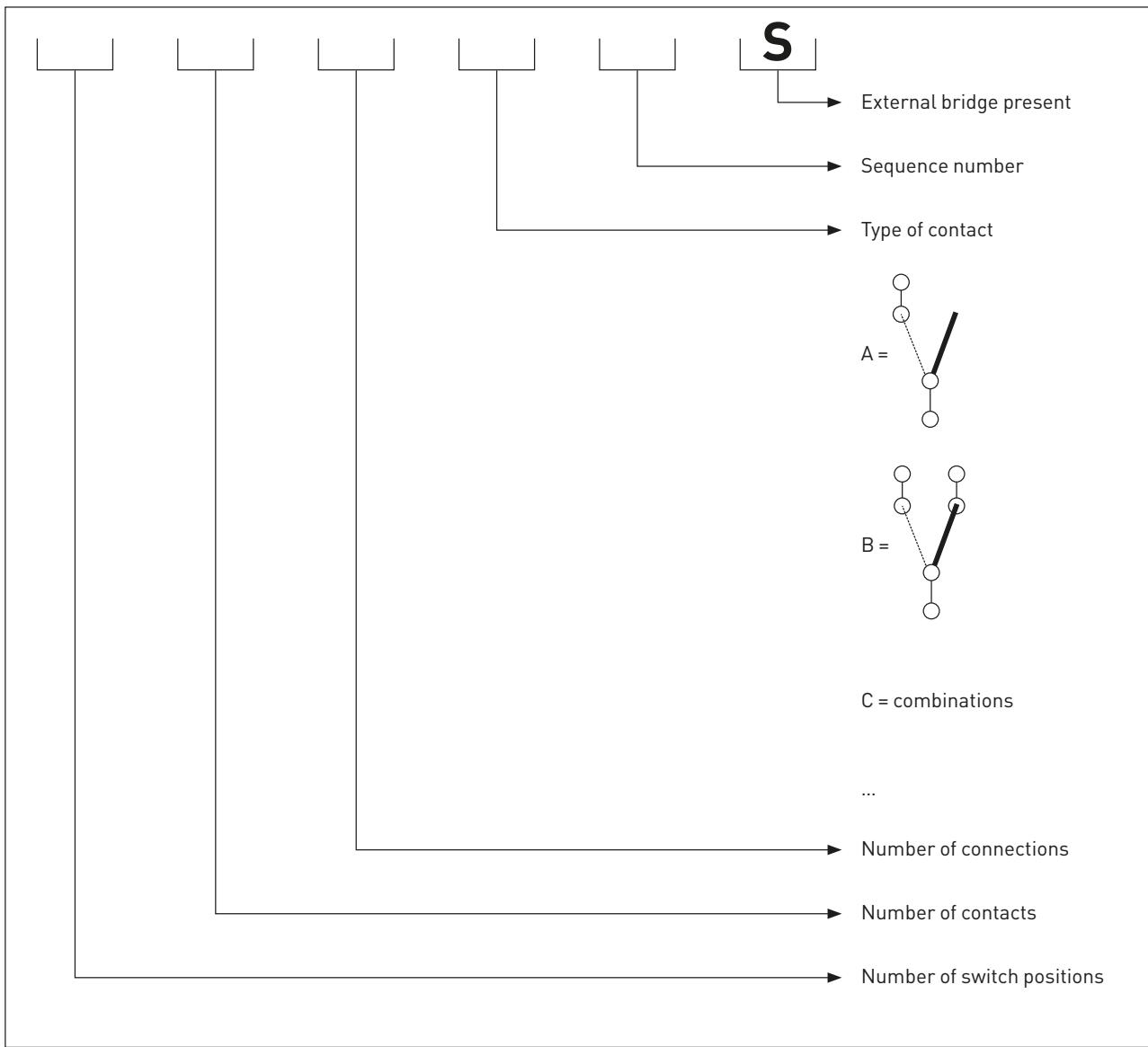


# ROCKER SWITCHES



## TECHNICAL SHEET

### TY-SWIT 1 & 2



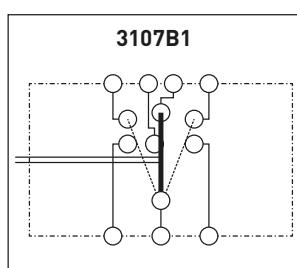
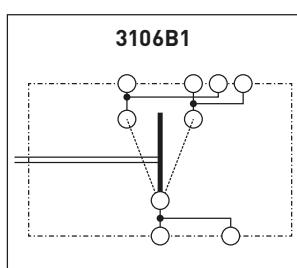
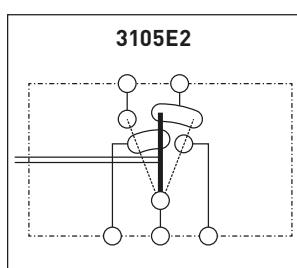
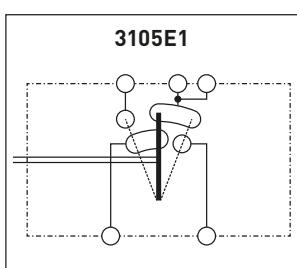
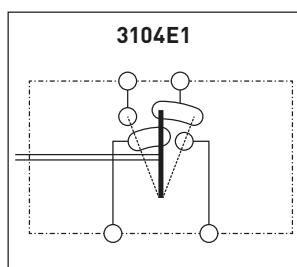
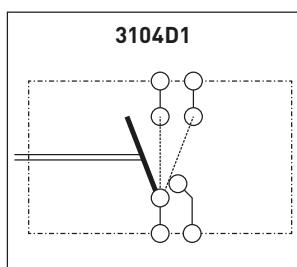
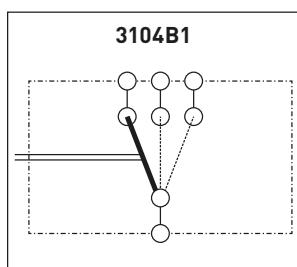
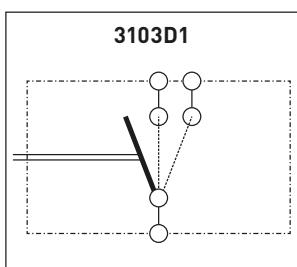
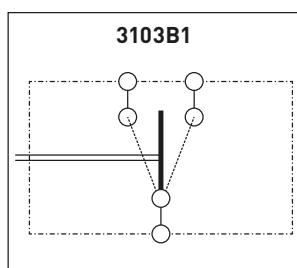
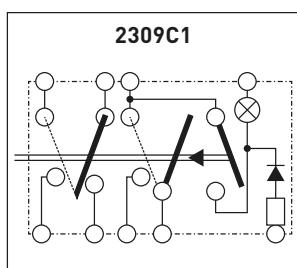
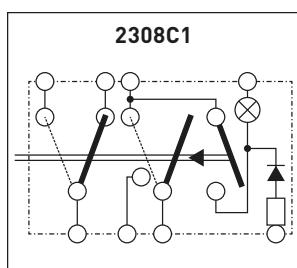
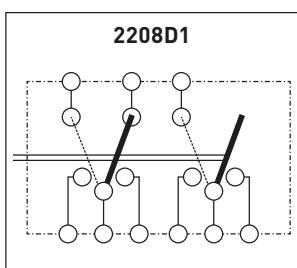
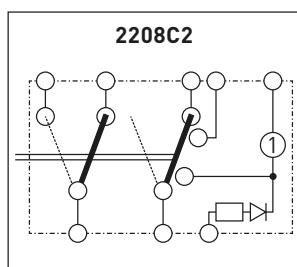
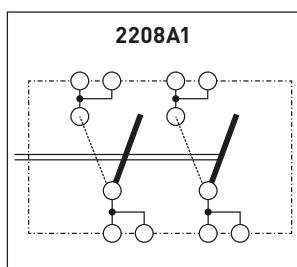
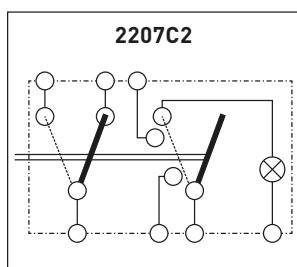
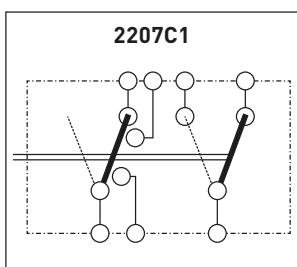
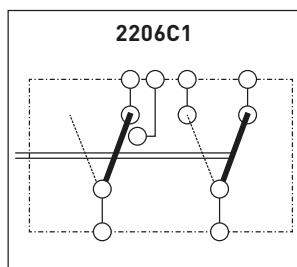
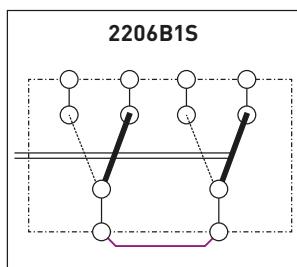
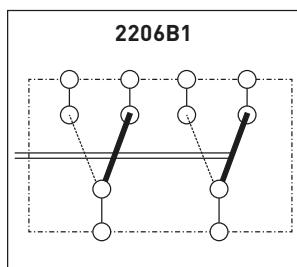
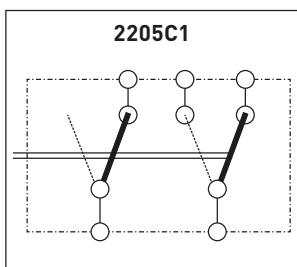
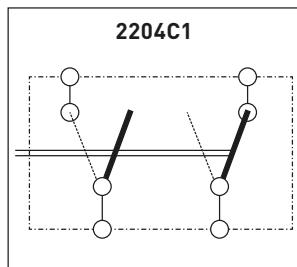
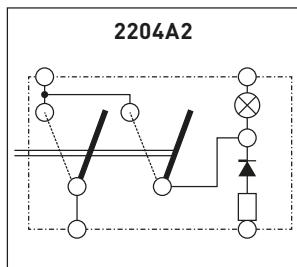
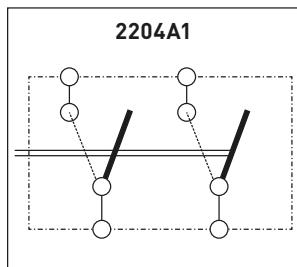
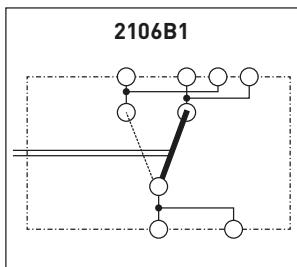
# ROCKER SWITCHES



## ROCKER SWITCHES

## TECHNICAL SHEET

TY-SWIT 1 & 2

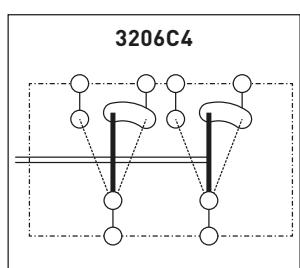
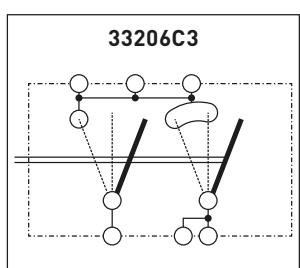
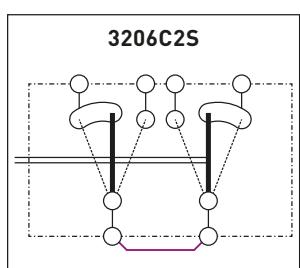
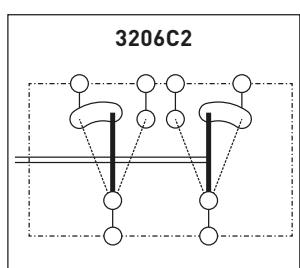
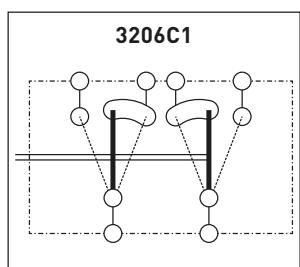
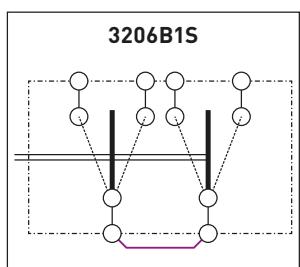
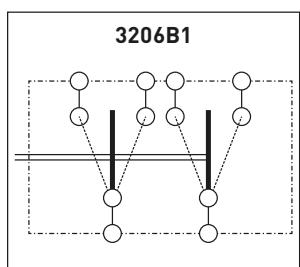
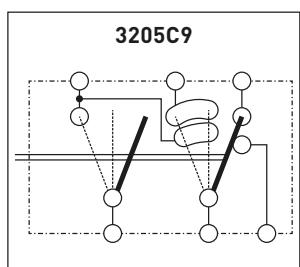
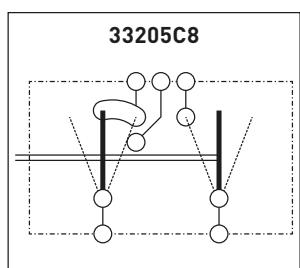
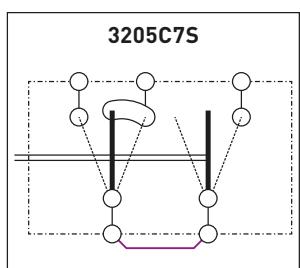
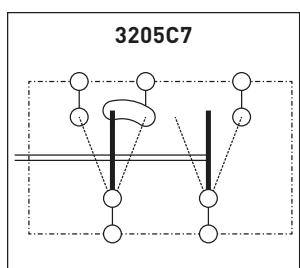
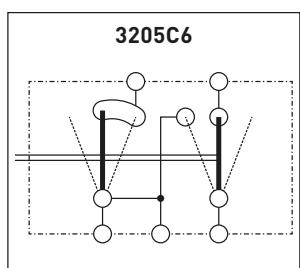
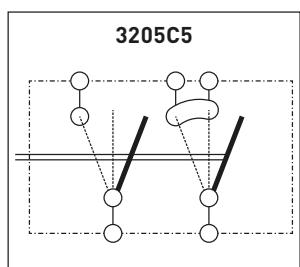
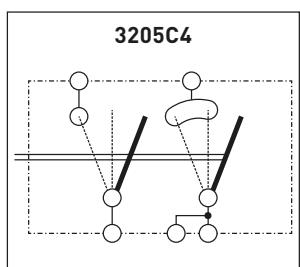
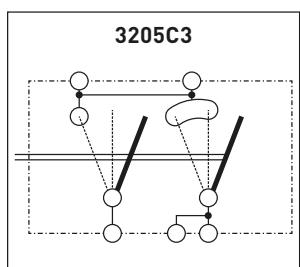
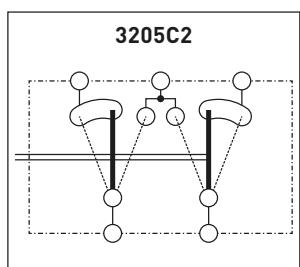
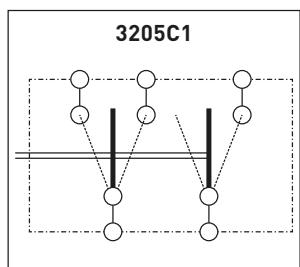
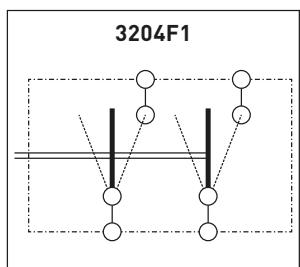
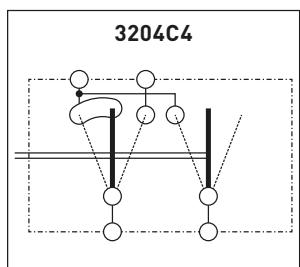
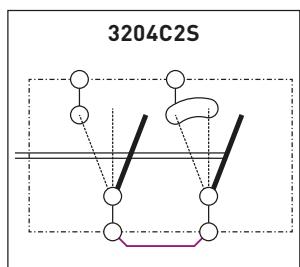
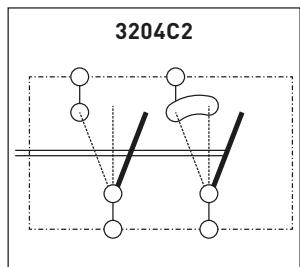
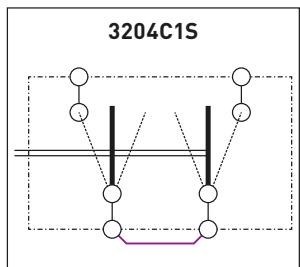
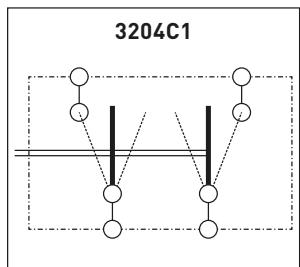
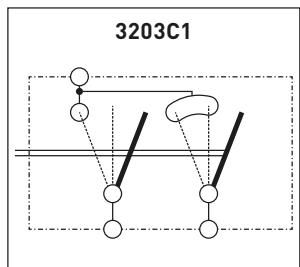


# ROCKER SWITCHES



## TECHNICAL SHEET

### TY-SWIT 1 & 2

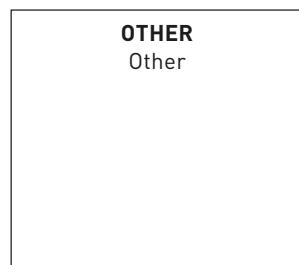
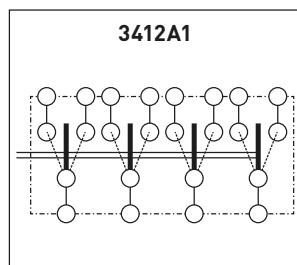
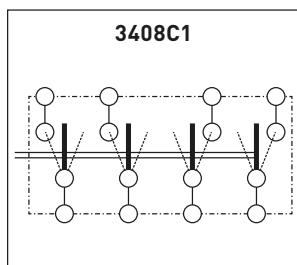
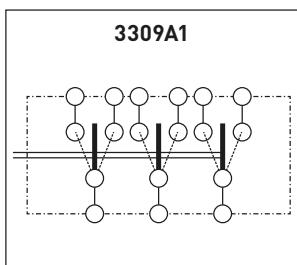
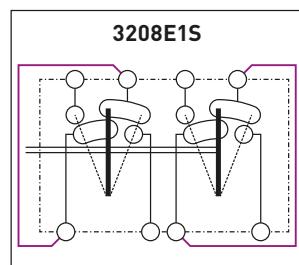
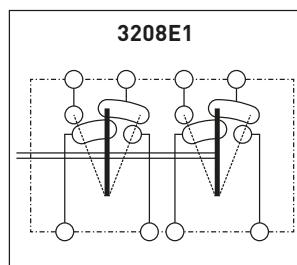
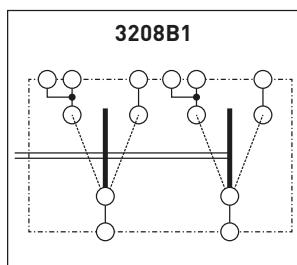
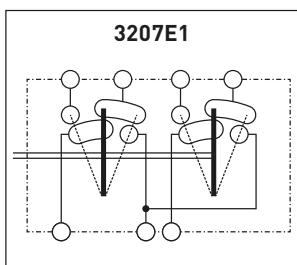
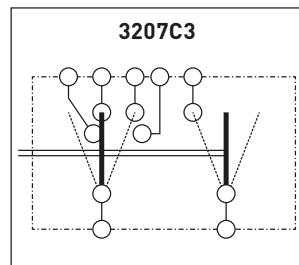
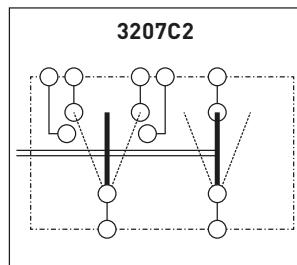
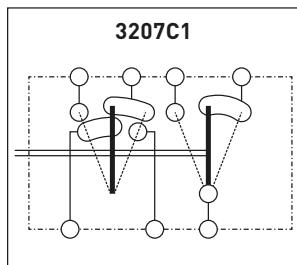
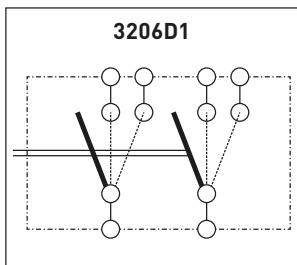


# ROCKER SWITCHES



## TECHNICAL SHEET

### TY-SWIT 1 & 2

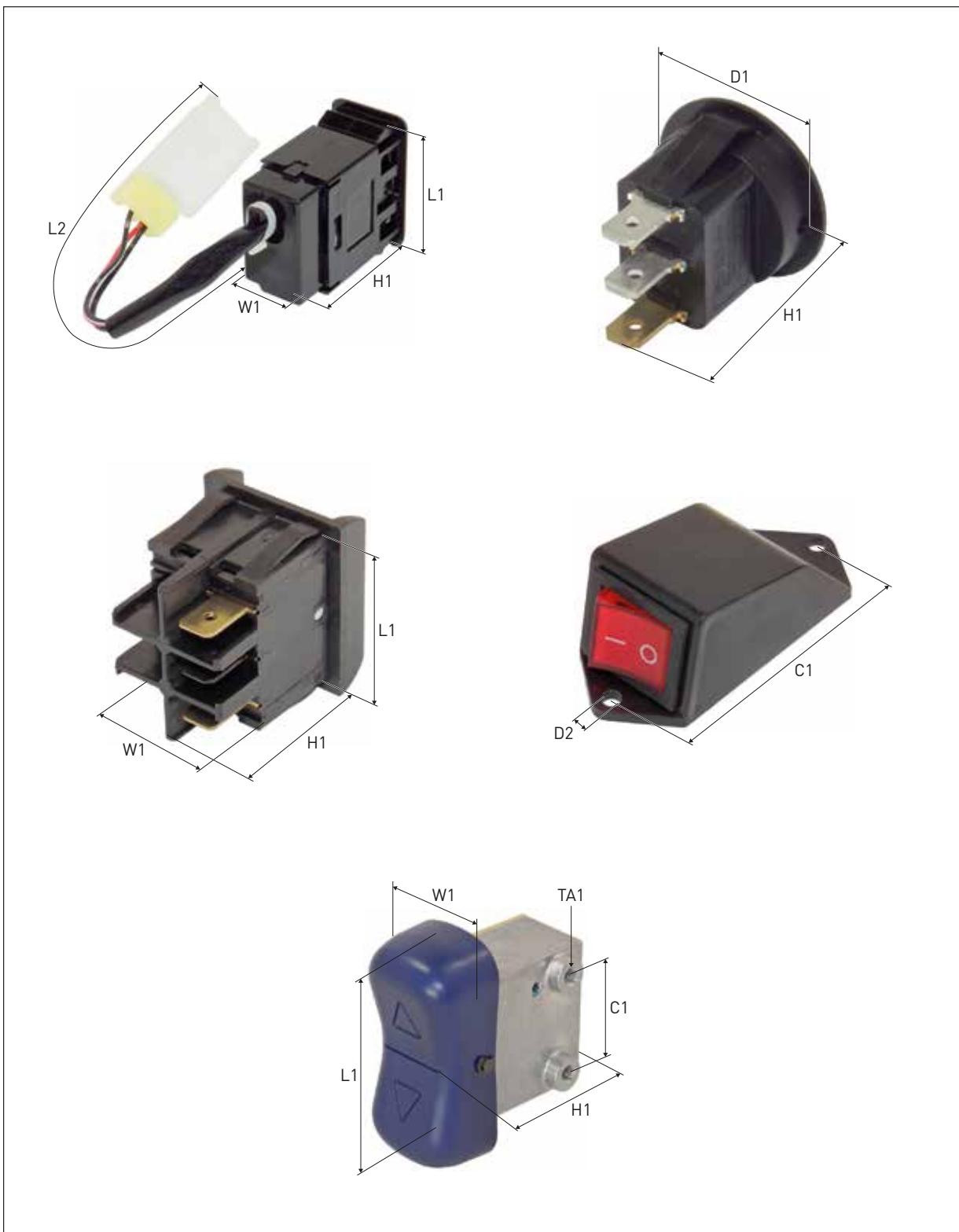


# ROCKER SWITCHES



## TECHNICAL SHEET

### DIMENSIONS



**TVH PARTS NV**  
Brabantstraat 15 · 8790 Waregem · Belgium  
T +32 56 43 42 11 · F +32 56 43 44 88 · info@tvh.com · www.tvh.com  
BTW BE 0425 399 042 · RLP Gent – division Kortrijk 0425 399 042  
BNP Paribas Fortis 285-0448248-40 · IBAN BE02 2850 4482 4840 · SWIFT/BIC GEBABEBB



## TECHNICAL SHEET



## TECHNISCHE FICHE

### WIPSCHAKELAAR

Groep  
**02-03-15-00**

Voorbeeld



Gegevens klant

Type machine: .....

Prijsaanvraag

Serienr. machine: .....

Bestelling

 QTY-CON..... Aantal aansluitingen

TY-CON..... Type aansluiting:

*CON = connector*

*F2.8 = blad 2,8 mm*

*F4.8 = blad 4,8 mm*

*F6.3 = blad 6,3 mm*

*F9.5 = blad 9,5 mm*

*PCB = PCB pin*

*PIN = pin*

*SCR = schroef*

*SO = soldeerverbinding*

*ST = bout*

*WIRE = kabel*

*WC = kabel met connector*

*WP = kabel met pin*

*OTHER = andere*

I..... Stroom (A)

U1..... Minimale spanning (V)

U2..... Maximale spanning (V)

QTY-WIRE..... Aantal kabels

QTY-PIN..... Aantal pinnen

L1..... Inbouwlengte van de wipschakelaar (mm)

W1..... Inbouwbreedte van de wipschakelaar (mm)

H1..... Inbouwhoogte van de wipschakelaar (mm)

D1..... Inbouwdiameter van de wipschakelaar (mm)

QTY-HO..... Aantal bevestigingsgaten

D2..... Diameter van de bevestigingsgaten (mm)

C1..... Kortste centerafstand tussen de bevestigingsgaten (mm)

C2..... Langste centerafstand tussen de bevestigingsgaten (mm)

L2..... Lengte van de kabel (mm)

TA1..... Type schroefdraad

# ROCKER SWITCHES



## TECHNICAL SHEET

- TA1-SUB ..... Subtype schroefdraad:  
Pm1..... Spoed metrisch  
Pi1..... Spoed inch  
RH/LH..... Rechtse of linkse schroefdraad  
QTY-ACTU .... Aantal actuatoren  
BUT-PR..... Knop aanwezig (ja/nee)  
MAT-BUT ..... Materiaal van de knop:  
    *MET = metaal*  
    *METPL = metaal plastic*  
    *PL = plastic*  
MAT-H..... Materiaal van de behuizing:  
    *MET = metaal*  
    *METPL = metaal plastic*  
    *PL = plastic*  
IP..... IP-waarde, stof- en waterresistentiegraad  
CAP-PR..... Beschermkap aanwezig (ja/nee)  
SYM-PR..... Symbool aanwezig:  
    *NO = nee*  
    *YES = ja*  
    *OP = optioneel*  
COL-LENS .... Kleur van de lens:  
    *BLA = zwart*  
    *BLU = blauw*  
    *GRE = groen*  
    *CLEAR = kleurloos*  
    *O = oranje*  
    *R = rood*  
    *TINTBLA = zwartgetint*  
    *WHI = wit*  
    *Y = geel*  
    *OP = optioneel*  
    *OTHER = andere*  
LHT-PR..... Licht aanwezig:  
    *NO = nee*  
    *YES = ja*  
    *OP = optioneel*  
COL-LHT..... Kleur van het licht:  
    *BLU = blauw*  
    *CLEAR = kleurloos*  
    *CW = koel wit*  
    *GRE = groen*  
    *O = oranje*  
    *R = rood*  
    *WW = warm wit*  
    *Y = geel*  
    *OTHER = andere*  
U3 ..... Spanning van het licht (V)

# ROCKER SWITCHES



## TECHNICAL SHEET

FUN..... Functie:

ACC = accessoires

BW = carrosserie

COM = combinatie

DRIVE = aandrijving

LHT = licht

UNI = universeel

OTHER = andere

SUB-FUN .... Subtype functie:

AGRI = accessoires, agrarisch

ARR = accessoires, pijlen

FORK = accessoires, vorken

HJ = accessoires, werkplatform

HYD = accessoires, hydraulica

LOCK1 = accessoires, slot

PTO = accessoires, krachtnemer

SUP = accessoires, ondersteuning

SW = accessoires, veegmachine

TRUC = accessoires, truck

DEFR = carrosserie, ontdooyer

DOOR = carrosserie, deur

ELEC = carrosserie, elektriciteit

HEAT = carrosserie, verwarming

HORN = carrosserie, claxon

SEAT = carrosserie, zetel

WIP = carrosserie, ruitenwissers

ENGI = aandrijving, motor

FUEL = aandrijving, brandstof

HB = aandrijving, handrem

LOCK2 = aandrijving, slot

START = aandrijving, start

STEER = aandrijving, besturing

TRANS = aandrijving, transmissie

FOG = licht, mistlicht

LR = licht, linker/rechter richtingaanwijzer

LHT = licht, licht

REVO = licht, zwaai- of flitslicht

WARN = licht, waarschuwing

WORK = licht, werklicht

LET ..... Letters: tekst en/of cijfers vermeld op de wipschakelaar

TY-POS1 ..... Type positie van de eerste actuator

TY-SWIT1 ..... Type schakelaar van de eerste actuator

TY-POS2 ..... Type positie van de tweede actuator

TY-SWIT2 ..... Type schakelaar van de tweede actuator

QTY-POLE .... Aantal polen in de schakelaar



## TECHNICAL SHEET



## FICHE TECHNIQUE

### INTERRUPTEUR À BASCULE

Groupe  
**02-03-15-00**

Exemple



Données client

Type machine : .....

Demande de prix

No. série machine : .....

Commande

QTY-CON..... Nombre de connexions

TY-CON..... Type de connexion :

*CON = connecteur*

*F2.8 = cosse plate 2,8 mm*

*F4.8 = cosse plate 4,8 mm*

*F6.3 = cosse plate 6,3 mm*

*F9.5 = cosse plate 9,5 mm*

*PCB = broche PCB*

*PIN = broche*

*SCR = vis*

*SO = connexion à souder*

*ST = borne*

*WIRE = fil*

*WC = fil avec connecteur*

*WP = fil avec broche*

*OTHER = autre*

I..... Courant (A)

U1..... Tension minimale (V)

U2..... Tension maximum (V)

QTY-WIRE..... Nombre de fils

QTY-PIN..... Nombre de broches

L1..... Longueur de montage de l'interrupteur à bascule (mm)

W1..... Largeur de montage de l'interrupteur à bascule (mm)

H1..... Hauteur de montage de l'interrupteur à bascule (mm)

D1..... Diamètre de montage de l'interrupteur à bascule (mm)

QTY-HO..... Nombre de trous de fixation

D2..... Diamètre des trous de fixation (mm)

C1..... Entraxe le plus court entre les trous de fixation (mm)

C2..... Entraxe le plus long entre les trous de fixation (mm)

L2..... Longueur du câble (mm)

TA1..... Type de filetage

# ROCKER SWITCHES



## TECHNICAL SHEET

TA1-SUB.....	Sous-type de filetage
Pm1.....	Pas métrique
Pi1.....	Pas en pouces
RH/LH.....	Filetage à droite ou à gauche
QTY-ACTU .....	Nombre d'actionneurs
BUT-PR.....	Bouton présent (oui/non)
MAT-BUT .....	Matériau du bouton :
	<i>MET = métal</i>
	<i>METPL = plastique-métal</i>
	<i>PL = plastique</i>
MAT-H.....	Matériau du boîtier :
	<i>MET = métal</i>
	<i>METPL = plastique-métal</i>
	<i>PL = plastique</i>
IP.....	Valeur IP, niveau de résistance à la poussière et à l'eau
CAP-PR.....	Capuchon de protection présent (oui/non)
SYM-PR.....	Symbolé présent :
	<i>NO = non</i>
	<i>YES = oui</i>
	<i>OP = en option</i>
COL-LENS ....	Couleur de la lentille :
	<i>BLA = noir</i>
	<i>BLU = bleu</i>
	<i>GRE = vert</i>
	<i>CLEAR = transparent</i>
	<i>O = orange</i>
	<i>R = rouge</i>
	<i>TINTBLA = teinté noir</i>
	<i>WHI = blanc</i>
	<i>Y = jaune</i>
	<i>OP = option</i>
	<i>OTHER = autre</i>
LHT-PR.....	Éclairage présent :
	<i>NO = non</i>
	<i>YES = oui</i>
	<i>OP = en option</i>
COL-LHT.....	Couleur de l'éclairage :
	<i>BLU = bleu</i>
	<i>CLEAR = transparent</i>
	<i>CW = blanc froid</i>
	<i>GRE = vert</i>
	<i>O = orange</i>
	<i>R = rouge</i>
	<i>WW = blanc chaud</i>
	<i>Y = jaune</i>
	<i>OTHER = autre</i>
U3 .....	Tension de l'éclairage (V)

# ROCKER SWITCHES



## TECHNICAL SHEET

FUN..... Fonction :

ACC = accessoires

BW = carrosserie

COM = combinaison

DRIVE = entraînement

LHT = éclairage

UNI = universel

OTHER = autre

SUB-FUN .... Sous-type de fonction :

AGRI = accessoires agriculture

ARR = accessoires flèches

FORK = accessoires fourches

HJ = accessoires cage

HYD = accessoires hydraulique

LOCK1 = accessoires verrouillage

PTO = accessoires prise de force

SUP = accessoires support

SW = accessoires balayeuse

TRUC = accessoires camion

DEFR = carrosserie dégivreur

DOOR = carrosserie porte

ELEC = carrosserie électricité

HEAT = carrosserie chauffage

HORN = carrosserie klaxon

SEAT = carrosserie siège

WIP = carrosserie essuie-glace

ENGI = entraînement moteur

FUEL = entraînement carburant

HB = entraînement frein à main

LOCK2 = entraînement verrouillage

START = entraînement démarrage

STEER = entraînement direction

TRANS = entraînement transmission

FOG = éclairage feu antibrouillard

LR = éclairage feu clignotant gauche/droite

LHT = éclairage feu

REVO = éclairage gyrophare / feu à éclats

WARN = éclairage avertissement

WORK = éclairage phare de travail

LET ..... Lettrage : texte et/ou chiffres indiqués sur l'interrupteur à bascule

TY-POS1 ..... Type de position du premier actionneur

TY-SWIT1 ..... Type d'interrupteur du premier actionneur

TY-POS2 ..... Type de position du second actionneur

TY-SWIT2 ..... Type d'interrupteur du second actionneur

QTY-POLE .... Nombre de pôles dans l'interrupteur



## TECHNICAL SHEET



## TECHNISCHES DATENBLATT

## WIPPSCHALTER

Gruppe  
**02-03-15-00**

Beispiel



Kundendaten

Maschinentyp: .....

Preisanfrage

Serien-Nr. Maschine: .....

Bestellung

QTY-CON..... Anzahl der Anschlüsse

TY-CON..... Art des Anschlusses:

CON = Stecker

F2.8 = Flachstecker 2,8 mm

F4.8 = Flachstecker 4,8 mm

F6.3 = Flachstecker 6,3 mm

F9.5 = Flachstecker 9,5 mm

PCB = PCB-Stiftanschluss

PIN = Stift

SCR = Schraube

SO = Lötanschluss

ST = Bolzen

WIRE = Kabel

WC = Kabel mit Stecker

WP = Kabel mit Stift

OTHER = Sonstige

I ..... Strom (A)

U1 ..... Minimale Spannung (V)

U2 ..... Maximale Spannung (V)

QTY-WIRE..... Anzahl der Kabel

QTY-PIN ..... Anzahl der Stifte

L1 ..... Eingebaute Länge des Wippschalters (mm)

W1 ..... Eingebaute Breite des Wippschalters (mm)

H1 ..... Eingebaute Höhe des Wippschalters (mm)

D1 ..... Eingebauter Durchmesser des Wippschalters (mm)

QTY-HO ..... Anzahl der Montagebohrungen

D2 ..... Durchmesser der Montagebohrungen (mm)

C1 ..... Kürzester Mittenabstand zwischen Montagebohrungen (mm)

C2 ..... Längster Mittenabstand zwischen Montagebohrungen (mm)

L2 ..... Länge des Kabels (mm)

TA1 ..... Art des Gewindes

# ROCKER SWITCHES



## TECHNICAL SHEET

ROCKER SWITCHES

- TA1-SUB..... Unterart des Gewindes  
Pm1..... Steigung (metrisch)  
Pi1..... Steigung (Zoll)  
RH/LH..... Rechtshändiges oder linkshändiges Gewinde  
QTY-ACTU .... Anzahl der Aktuatoren  
BUT-PR..... Drucktaste vorhanden (ja/nein)  
MAT-BUT .... Material der Drucktaste:  
    *MET = Metall*  
    *METPL = Metallplastik*  
    *PL = Kunststoff*  
MAT-H..... Material des Gehäuses:  
    *MET = Metall*  
    *METPL = Metallplastik*  
    *PL = Kunststoff*  
IP..... IP-Wert, Grad der Staub- und Wasserfestigkeit  
CAP-PR..... Schutzkappe vorhanden (ja/nein)  
SYM-PR..... Symbol vorhanden:  
    *NO = Nein*  
    *YES = Ja*  
    *OP = Optional*  
COL-LENS .... Farbe der Linse:  
    *BLA = Schwarz*  
    *BLU = Blau*  
    *GRE = Grün*  
    *CLEAR = Hell*  
    *O = Orange*  
    *R = Rot*  
    *TINTBLA = Schwarz, getönt*  
    *WHI = Weiß*  
    *Y = Gelb*  
    *OP = Option*  
    *OTHER = Sonstige*  
LHT-PR..... Licht vorhanden:  
    *NO = Nein*  
    *YES = Ja*  
    *OP = Optional*  
COL-LHT..... Farbe des Lichtes:  
    *BLU = Blau*  
    *CLEAR = Hell*  
    *CW = Kühles Weiß*  
    *GRE = Grün*  
    *O = Orange*  
    *R = Rot*  
    *WW = Warmes Weiß*  
    *Y = Gelb*  
    *OTHER = Sonstige*  
U3 ..... Spannung des Lichtes (V)

# ROCKER SWITCHES



## TECHNICAL SHEET

FUN..... Funktion:

ACC = Zubehör

BW = Karosserie

COM = Kombination

DRIVE = Antrieb

LHT = Licht

UNI = Universell

OTHER = Sonstige

SUB-FUN ..... Unterart der Funktion:

AGRI = Zubehör, landwirtschaftlich

ARR = Zubehör, Pfeile

FORK = Zubehör, Gabelzinken

HJ = Zubehör, Personenkorbs

HYD = Zubehör, hydraulisch

LOCK1 = Zubehör, Schloss

PTO = Zubehör, Zapfwelle

SUP = Zubehör, Unterstützung

SW = Zubehör, Kehrmaschine

TRUC = Zubehör, Fahrzeug

DEFR = Karosserie, Entfroster

DOOR = Karosserie, Tür

ELEC = Karosserie, Elektrizität

HEAT = Karosserie, Heizung

HORN = Karosserie, Hupe

SEAT = Karosserie, Fahrersitz

WIP = Karosserie, Scheibenwischer

ENGI = Antrieb, Motor

FUEL = Antrieb, Kraftstoff

HB = Antrieb, Handbremse

LOCK2 = Antrieb, Schloss

START = Antrieb, Start

STEER = Antrieb, Lenkung

TRANS = Antrieb, Getriebe

FOG = Licht, Nebelscheinwerfer

LR = Licht, Richtungsanzeiger links/rechts Seite

LHT = Licht, Licht

REVO = Licht, Rundum/Blitzleuchte

WARN = Licht, Warnleuchte

WORK = Licht, Arbeitsleuchte

LET ..... Beschriftung: Text und/oder Ziffern auf dem Wippschalter

TY-POS1 ..... Art der Position des ersten Aktuators

TY-SWIT1 ..... Art des Schalters des ersten Aktuators

TY-POS2 ..... Art der Position des zweiten Aktuators

TY-SWIT2 ..... Art des Schalters des zweiten Aktuators

QTY-POLE .... Anzahl der Pole im Schalter

# ROCKER SWITCHES

Nº of connections: 1

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	30	11	25	ON OFF ON	I 0 II	12 V 24 V	Wire with connector <a href="#">165TA5250</a>
	30,5	11	24	ON ON	I I	12 V	Wire with connector <a href="#">163TA8380</a>
	34	22	15	...	...	12 V 24 V	Wire with connector <a href="#">165TA5146</a>
	35	21	48	ON OFF ON	I 0 II		Connector With light <a href="#">165TA5183</a>
	35	21	48,5	ON OFF ON	I 0 II	12 V 24 V	Wire with connector <a href="#">146TA3223</a>
	35	21	48,5	ON OFF ON	I 0 II	12 V 24 V	Wire with connector <a href="#">146TA3221</a>
	35	21,5	50	OFF ON	I 0	12 V	Connector With light <a href="#">165TA5181</a>
	37	21	47	Mom. ON OFF Mom. ON	I 0 II	48 V	Connector <a href="#">146TA4146</a>

# ROCKER SWITCHES

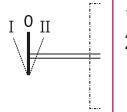
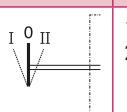
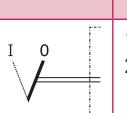
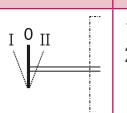
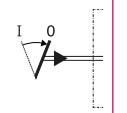
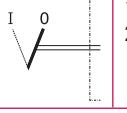
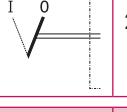
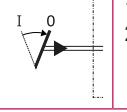
## ROCKER SWITCHES

Nº of connections: 1

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	49	ON ON	I I V	12 V 24 V Connector	<a href="#">165TA5306</a>
	37	21	49,5	ON ON	I I V	12 V Connector With light	<a href="#">146TA8209</a>
	37	21	49,5	ON ON	I I V	12 V Connector With light	<a href="#">146TA8988</a>
	37	21	49,5	ON ON	I I V	24 V Connector With light	<a href="#">165TA5327</a>
	37	21	49,5	ON ON ON	II I III V	12 V Connector With light	<a href="#">165TA5430</a>
	37	21	49,5	ON ON ON	II I III V	12 V Connector With light	<a href="#">147TA1844</a>
	37	22	32,5	... ...	V	12 V Connector With light	<a href="#">165TA5339</a>
	43	20	37	... ... MOM. ...	V	12 V 24 V Connector	<a href="#">165TA5259</a>

# ROCKER SWITCHES

Nº of connections: 1

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	43	24	30	ON OFF ON 	12 V 24 V	Wire with connector	<a href="#">146TA2222</a>
	43	24	30	ON OFF ON 	12 V 24 V	Wire with connector	<a href="#">146TA3624</a>
	44	22	4,5	OFF ON 	12 V 24 V	Connector Light optional	<a href="#">146TA2349</a>
	44	22	29,5	ON OFF ON 	12 V 24 V	Connector	<a href="#">146TA8085</a>
	44	22	39	OFF Mom. ON 		Connector Light optional	<a href="#">146TA6430</a>
	44	22	44	OFF ON 	12 V 24 V	Connector Light optional	<a href="#">146TA6906</a>
	44	22	44	OFF ON 	12 V 24 V	Connector Light optional	<a href="#">165TA5269</a>
	44	22	44	OFF Mom. ON 	12 V 24 V	Connector Light optional	<a href="#">165TA5159</a>

# ROCKER SWITCHES

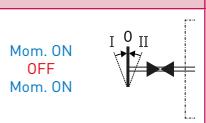
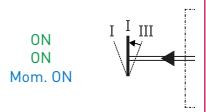
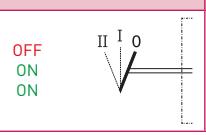
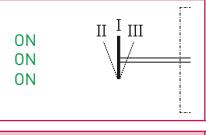
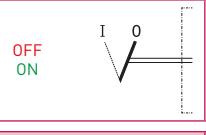
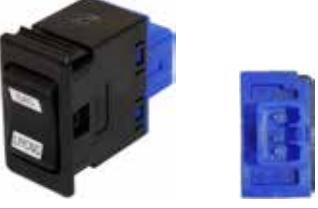
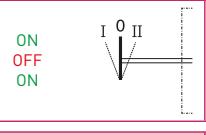
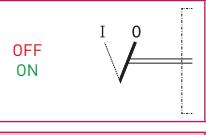
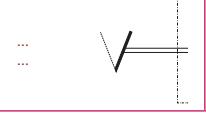
## ROCKER SWITCHES

Nº of connections: 1

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	44	ON ON	I I	12 V 24 V Connector Light optional	<a href="#">165TA5264</a>
	44	22	44	ON Mom. ON	I I	12 V 24 V Connector Light optional	<a href="#">165TA5365</a>
	44	22	44	Mom. ON OFF Mom. ON	I II I	12 V 24 V Connector Light optional	<a href="#">165TA5164</a>
	44	22	44	Mom. ON OFF Mom. ON	I II I	12 V 24 V Connector Light optional	<a href="#">165TA5123</a>
	44	22	44	ON ON ON	II I III	12 V 24 V Connector Light optional	<a href="#">165TA5160</a>
	44	22	44	OFF ON ON ON	II I O	12 V 24 V Connector Light optional	<a href="#">165TA5364</a>
	44	22	44	ON ON	I I	12 V 24 V Connector Light optional	<a href="#">165TA5158</a>
	44	22	44	ON OFF Mom. ON	I II I	12 V 24 V Connector Light optional	<a href="#">165TA5163</a>

# ROCKER SWITCHES

Nº of connections: 1

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	44	Mom. ON OFF Mom. ON 	12 V 24 V	Connector Light optional	<a href="#">165TA5434</a>
	44	22	44	ON ON Mom. ON 		Connector Light optional	<a href="#">165TA5354</a>
	44	22	44	OFF ON ON 		Connector Light optional	<a href="#">165TA5437</a>
	44	22	47	ON ON ON 	12 V 24 V	Connector Light optional	<a href="#">165TA5203</a>
	45,5	24,5	47	OFF ON 		Wire with connector With light	<a href="#">146TA2933</a>
	46	25	55	ON OFF ON 	12 V 24 V	Connector	<a href="#">146TA3216</a>
	46	25	47	OFF ON 	12 V	Wire with connector With light	<a href="#">165TA5176</a>
	49	34,5	39	... ... 	12 V 24 V	Connector	<a href="#">165TA5147</a>

# ROCKER SWITCHES



## ROCKER SWITCHES

Nº of connections: 1

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	50	32	32	ON ON ON	12 V 24 V	Wire with connector	<a href="#">146TA5494</a>
	66	32	35	Mom. ON OFF Mom. ON	12 V 24 V	Wire with connector	<a href="#">146TA4762</a>
	159,5	35	40	OFF Mom. ON	12 V 24 V	Wire with connector , Type of position of the second actuator: 3F	<a href="#">146TA6353</a>
	160	35	41	OFF Mom. ON	12 V 24 V	Wire with connector , Type of position of the second actuator: 3A	<a href="#">165TA5321</a>
	160	35	41	OFF Mom. ON	12 V 24 V	Wire with connector	<a href="#">146TA6347</a>
				Mom. ... ... Mom. ...	12 V 24 V	Wire with connector	<a href="#">146TA4825</a>

# ROCKER SWITCHES

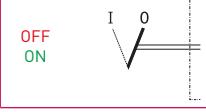
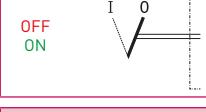
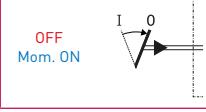
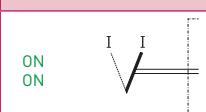
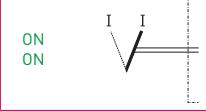
Nº of connections: 2

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	25,5	11	26	OFF Mom. ON	250 V	Blade 6,3 mm	<a href="#">165TA5555</a>
	27	11,5	25,5	OFF ON	12 V 24 V	Blade 6,3 mm	<a href="#">165TA5127</a>
	27	12	36	OFF ON	125 V 250 V	Blade 6,3 mm	<a href="#">146TA2000</a>
	32,5	14	16	Mom. ON OFF Mom. ON	12 V 24 V	Wire with connector	<a href="#">146TA5538</a>
	37	21	37,5	OFF Mom. ON	28 V	Blade 6,3 mm	<a href="#">146TA7386</a>
	37	21	38	OFF ON	12 V	Blade 6,3 mm With light	<a href="#">146TA1698</a>
	37	21	38	OFF Mom. ON	12 V	Blade 4,8 mm	<a href="#">146TA7387</a>
	37	21	38	OFF Mom. ON	24 V	Blade 6,3 mm	<a href="#">165TA5133</a>

# ROCKER SWITCHES

## ROCKER SWITCHES

Nº of connections: 2

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	39	 OFF ON	28 V	Blade 6,3 mm	<a href="#">146TA7389</a>
	37	21	39,5	 OFF ON	28 V	Blade 6,3 mm	<a href="#">165TA5369</a>
	37	21	58	 OFF Mom. ON	48 V	Wire with connector	<a href="#">165TA5219</a>
	38	21	39,5	 OFF Mom. ON	28 V	Blade 6,3 mm	<a href="#">146TA4139</a>
	44	22	47	 ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5316</a>
	44	22	47	 ON ON	24 V	Connector Blade 6,3 mm With light	<a href="#">165TA5268</a>
	44	22	47	 ON ON	24 V	Connector Blade 6,3 mm With light	<a href="#">165TA5220</a>
	44	22	47	 ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5572</a>

# ROCKER SWITCHES



Nº of connections: 2

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	47	ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5226</a>
	44	22	47	ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5406</a>
	44	22	47	ON ON	24 V	Connector Blade 6,3 mm With light	<a href="#">165TA5356</a>
	44	22	47	ON ON	24 V	Connector Blade 6,3 mm With light	<a href="#">165TA5561</a>

# ROCKER SWITCHES

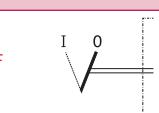
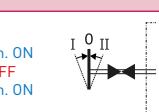
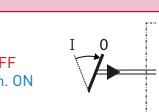
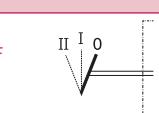
## ROCKER SWITCHES

Nº of connections: 3

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	27	12	36	ON ON	I V I	125 V 250 V	Blade 6,3 mm <a href="#">147TA2465</a>
	27,5	9,5	30	OFF ON	I O I	24 V	Blade 6,3 mm With light <a href="#">165TA5444</a>
	28	10,5	30	OFF ON	I O I	250 V	Blade 6,3 mm <a href="#">165TA5506</a>
	30	11	27	ON OFF ON	I O II I	125 V 250 V	Blade 6,3 mm <a href="#">165TA5206</a>
	37	21	35	Mom. ON OFF Mom. ON	I O II I	12 V 24 V	Blade 6,3 mm <a href="#">165TA5432</a>
	37	21	37	ON ON&#8226;	I I I	12 V	Blade 6,3 mm <a href="#">165TA5289</a>
	37	21	37	Mom. ON OFF Mom. ON	I O II I	24 V	Blade 6,3 mm <a href="#">165TA5132</a>
	37	21	38	Mom. ON OFF Mom. ON	I O II I	12 V	Solder connection <a href="#">165TA5491</a>

# ROCKER SWITCHES

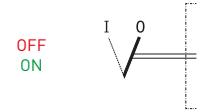
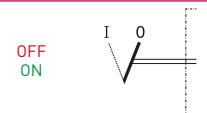
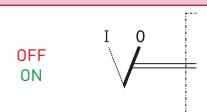
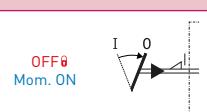
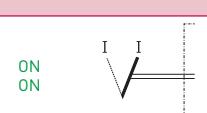
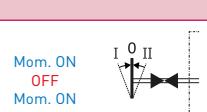
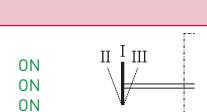
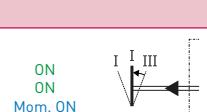
Nº of connections: 3

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	38	Mom. ON OFF Mom. ON 	24 V	Blade 6,3 mm	<a href="#">165TA5515</a>
	37	21	39	Mom. ON OFF Mom. ON 	12 V	Blade 6,3 mm	<a href="#">165TA5421</a>
	37	21	39,5	OFF ON 	12 V	Blade 6,3 mm With light	<a href="#">165TA5395</a>
	37	21	39,5	Mom. ON OFF Mom. ON 	125 V 250 V	Blade 6,3 mm	<a href="#">165TA5446</a>
	37	21	40	Mom. ON OFF Mom. ON 	125 V 250 V	Blade 6,3 mm	<a href="#">165TA5445</a>
	43	22	47	Mom. ON OFF Mom. ON 	12 V 125 V	Blade 6,3 mm	<a href="#">165TA5345</a>
	44	22	44	OFF Mom. ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5571</a>
	44	22	44	OFF ON ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5315</a>

# ROCKER SWITCHES

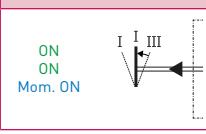
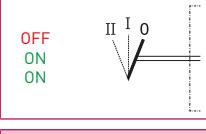
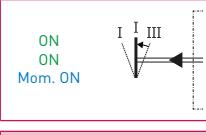
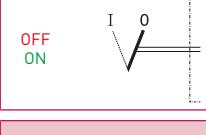
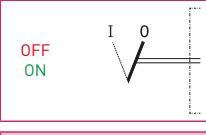
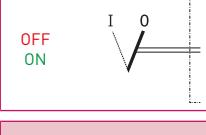
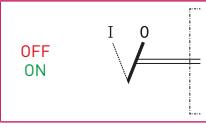
## ROCKER SWITCHES

Nº of connections: 3

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	47	 OFF ON	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA8552</a>
	44	22	47	 OFF ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5350</a>
	44	22	47	 OFF ON	24 V	Connector Blade 6,3 mm With light	<a href="#">165TA5178</a>
	44	22	47	 OFF Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5331</a>
	44	22	47	 ON ON	24 V	Connector Blade 6,3 mm With light	<a href="#">165TA5256</a>
	44	22	47	 Mom. ON OFF Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5246</a>
	44	22	47	 ON ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5319</a>
	44	22	47	 ON ON Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5549</a>

# ROCKER SWITCHES

Nº of connections: 3

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	47	 ON ON Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5122</a>
	44	22	47	 OFF ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5433</a>
	44	22	50	 Mom. ON OFF Mom. ON	12 V 24 V	Blade 6,3 mm	<a href="#">165TA5407</a>
	44	22	44	 ON ON Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA1696</a>
	44	22	47	 OFF ON	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA2287</a>
	44	22	47	 OFF ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5234</a>
	44	22	47	 OFF ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5360</a>
	44	22	47	 OFF ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5570</a>

# ROCKER SWITCHES

## ROCKER SWITCHES

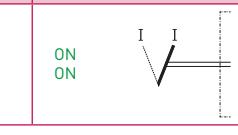


Nº of connections: 3

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	47		12 V	Connector Blade 6,3 mm With light	<a href="#">146TA4457</a>
	44	22	47		12 V	Connector Blade 6,3 mm With light	<a href="#">146TA4461</a>
	44	22	47		12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5568</a>
	44	22	47		12 V	Connector Blade 6,3 mm With light	<a href="#">146TA6991</a>
	44	22	47		12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5317</a>
	44	22	47		12 V	Connector Blade 6,3 mm With light	<a href="#">146TA4462</a>
	44	22	47		12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5255</a>
	44	22	47		24 V	Connector Blade 6,3 mm With light	<a href="#">147TA2281</a>

# ROCKER SWITCHES

Nº of connections: 3

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	47	 OFF Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5217</a>
	44	22	47	 OFF Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5239</a>
	44	22	47	 OFF Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5307</a>
	44	22	47	 OFF Mom. ON	24 V	Connector Blade 6,3 mm With light	<a href="#">165TA5351</a>
	44	22	47	 OFF Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5484</a>
	44	22	47	 OFF Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5323</a>
	44	22	47	 ON ON	24 V	Connector Blade 6,3 mm With light	<a href="#">146TA2983</a>
	44	22	47	 ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5363</a>

# ROCKER SWITCHES

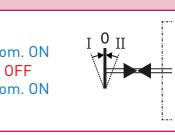
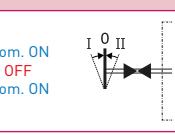
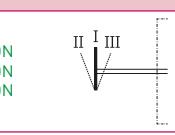
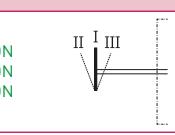
## ROCKER SWITCHES

Nº of connections: 3

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	47	ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5248</a>
	44	22	47	ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">147TA1941</a>
	44	22	47	ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">147TA2315</a>
	44	22	47	ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">116TA5372</a>
	44	22	47	ON ON	12 V	Connector Blade 6,3 mm With light	<a href="#">147TA2384</a>
	44	22	47	ON OFF ON	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5361</a>
	44	22	47	Mom. ON OFF Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA7001</a>
	44	22	47	Mom. ON OFF Mom. ON	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA4506</a>

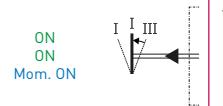
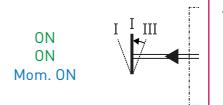
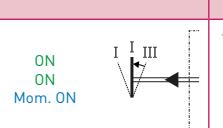
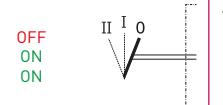
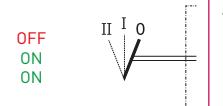
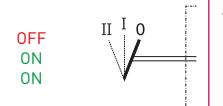
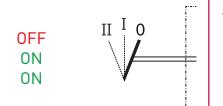
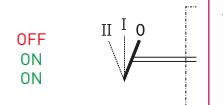
# ROCKER SWITCHES

Nº of connections: 3

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	47	Mom. ON OFF Mom. ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5288</a>
	44	22	47	Mom. ON OFF Mom. ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5423</a>
	44	22	47	Mom. ON OFF Mom. ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA4488</a>
	44	22	47	Mom. ON OFF Mom. ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5564</a>
	44	22	47	ON ON ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA5090</a>
	44	22	47	ON ON ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5332</a>
	44	22	47	Mom. ON ON Mom. ON 	24 V	Connector Blade 6,3 mm With light	<a href="#">146TA6432</a>
	44	22	47	Mom. ON ON Mom. ON 	24 V	Connector Blade 6,3 mm With light	<a href="#">146TA4757</a>

# ROCKER SWITCHES

## ROCKER SWITCHES

Nº of connections: 3								
	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF	
 	44	22	47	ON ON Mom. ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA4454</a>	
 	44	22	47	ON ON Mom. ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5359</a>	
 	44	22	47	ON ON Mom. ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA4455</a>	
 	44	22	47	OFF ON ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5197</a>	
 	44	22	47	OFF ON ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA8065</a>	
 	44	22	47	OFF ON ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA8074</a>	
 	44	22	47	OFF ON ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">165TA5353</a>	
 	44	22	47	OFF ON ON 	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA6983</a>	

# ROCKER SWITCHES



ROCKER SWITCHES

Nº of connections: 3

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	47	 OFF ON ON	24 V	Connector Blade 6,3 mm With light	<a href="#">165TA5124</a>
	44	22	47	 ... Mom. ...	24 V	Connector Blade 6,3 mm With light	<a href="#">165TA5500</a>
	45	22	47	 OFF ON	24 V	Connector Blade 6,3 mm With light	<a href="#">147TA2380</a>
	44	22	47	 ON ON&	12 V	Connector Blade 6,3 mm With light	<a href="#">146TA4482</a>

# ROCKER SWITCHES

## ROCKER SWITCHES

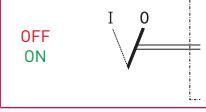
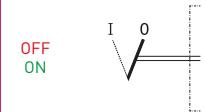
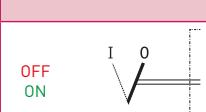
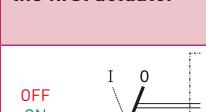
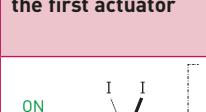
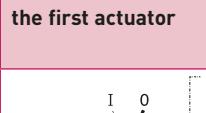


Nº of connections: 4

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	28	22	28		250 V	Blade 6,3 mm	<a href="#">165TA5554</a>
	30	22	26		125 V 250 V	Blade 6,3 mm	<a href="#">145TA2410</a>
	30	22	27		125 V 250 V	Blade 6,3 mm	<a href="#">146TA9230</a>
	30	22	27		250 V	Blade 6,3 mm	<a href="#">147TA1467</a>
	30	22	27,5		125 V 250 V	Blade 6,3 mm	<a href="#">165TA5418</a>
	30,5	22	30,5		24 V	Blade 6,3 mm With light	<a href="#">165TA5459</a>
	30,5	22	30,5		24 V	Blade 6,3 mm With light	<a href="#">165TA5457</a>
	36,5	21	37,5		125 V 250 V	Blade 6,3 mm	<a href="#">165TA5150</a>

# ROCKER SWITCHES

Nº of connections: 4

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	36	 OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5276</a>
	37	21	37	 OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5543</a>
	37	21	37	 OFF Mom. ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5291</a>
	37	21	37,5	 OFF ON	12 V	Blade 6,3 mm With light	<a href="#">146TA7744</a>
	37	21	37,5	 OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5293</a>
	37	21	37,5	 OFF ON	12 V	Blade 6,3 mm With light	<a href="#">146TA5419</a>
	37	21	37,5	 ON ON	24 V	Blade 6,3 mm With light	<a href="#">165TA5273</a>
	37	21	38	 OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5292</a>

# ROCKER SWITCHES

## ROCKER SWITCHES

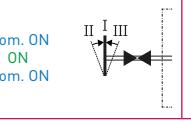
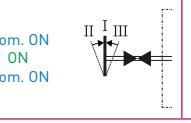
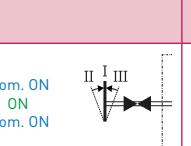
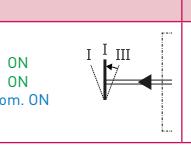
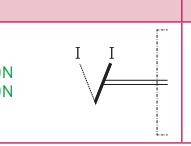
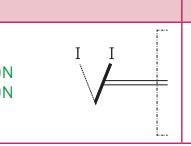
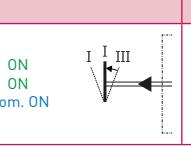
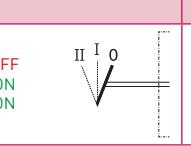


Nº of connections: 4

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	38	OFF ON ON	125 V 250 V	Blade 6,3 mm	<a href="#">165TA5174</a>
	37	21	38,5	OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5130</a>
	37	21	38,5	OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5154</a>
	37	21	44	OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5518</a>
	38	21	37,5	OFF ON ON	125 V 250 V	Blade 6,3 mm	<a href="#">146TA1726</a>
	44	22	50	OFF ON	12 V 24 V	Blade 6,3 mm Light optional	<a href="#">165TA5261</a>
	44	22	47	OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5125</a>
	132	61	65	ON OFF ON	110 V 600 V	Screw	<a href="#">165TA5262</a>

# ROCKER SWITCHES

Nº of connections: 5

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
 	32,5	20	31	Mom. ON ON Mom. ON 	12 V 24 V	Blade 6,3 mm Solder connection	<a href="#">165TA5512</a>
 	36	18	26	Mom. ON ON Mom. ON 	12 V 24 V	Blade 6,3 mm	<a href="#">146TA4285</a>
 	36	18,5	26	Mom. ON ON Mom. ON 	12 V 24 V	Blade 4,8 mm	<a href="#">146TA6438</a>
 	37	21	37	ON ON Mom. ON 	12 V	Blade 6,3 mm	<a href="#">165TA5138</a>
 	37	21	37,5	ON ON 	12 V	Blade 6,3 mm With light	<a href="#">146TA7745</a>
 	37	21	37,5	ON ON 	24 V	Blade 6,3 mm With light	<a href="#">165TA5462</a>
 	37	21	37,5	ON ON Mom. ON 	24 V	Blade 6,3 mm	<a href="#">165TA5140</a>
 	37	21	38,5	OFF ON ON 	12 V	Blade 6,3 mm With light	<a href="#">165TA5129</a>

# ROCKER SWITCHES



## ROCKER SWITCHES

Nº of connections: 5

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	44	ON Mom. ON 	12 V	Blade 6,3 mm With light	<a href="#">165TA5519</a>
	44	22	44,5	OFF Mom. ON 	28 V	Blade 6,3 mm With light	<a href="#">165TA5440</a>

# ROCKER SWITCHES

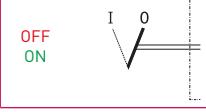
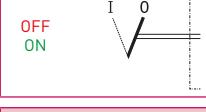
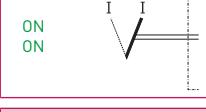
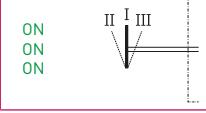
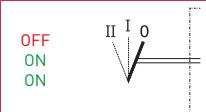
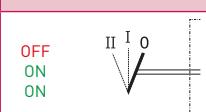
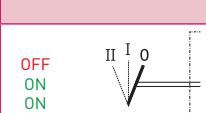
Nº of connections: 6

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	29	22	23,6	Mom. ON OFF Mom. ON	250 V	Blade 4,8 mm	<a href="#">165TA5493</a>
	29	22	29,5	ON ON	125 V 250 V	Blade 6,3 mm	<a href="#">165TA5207</a>
	29	22	29,5	ON Mom. ON	125 V 250 V	Blade 6,3 mm	<a href="#">165TA5208</a>
	30	16	22	ON OFF ON	120 V 250 V	Solder connection	<a href="#">165TA5477</a>
	30	22	27	Mom. ON OFF Mom. ON	125 V 250 V	Blade 6,3 mm	<a href="#">165TA5346</a>
	30	22	29,5	Mom. ON OFF Mom. ON	125 V 250 V	Blade 6,3 mm	<a href="#">146TA7694</a>
	37	20	37	Mom. ON ON Mom. ON	12 V 24 V	Blade 6,3 mm	<a href="#">146TA9000</a>
	37	21	35	Mom. ON OFF Mom. ON	24 V	Blade 6,3 mm	<a href="#">165TA5410</a>

# ROCKER SWITCHES

## ROCKER SWITCHES

Nº of connections: 6

		Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
		37	21	36	 OFF ON	48 V	Blade 6,3 mm With light	<a href="#">165TA5171</a>
		37	21	36,5	 OFF ON	80 V	Blade 6,3 mm With light	<a href="#">165TA5170</a>
		37	21	36,5	 ON OFF Mom. ON	24 V	Blade 6,3 mm	<a href="#">165TA5193</a>
		37	21	37	 ON ON	125 V 250 V	Blade 6,3 mm	<a href="#">165TA5371</a>
		37	21	37	 ON ON ON	24 V	Blade 6,3 mm	<a href="#">165TA5139</a>
		37	21	37	 OFF ON ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5336</a>
		37	21	37	 OFF ON ON	14 V	Blade 6,3 mm With light	<a href="#">165TA5392</a>
		37	21	37	 OFF ON ON	24 V	Blade 6,3 mm With light	<a href="#">165TA5144</a>

# ROCKER SWITCHES

Nº of connections: 6

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	37,5	 OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5538</a>
	37	21	37,5	 OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5334</a>
	37	21	37,5	 OFF ON	48 V	Blade 6,3 mm With light	<a href="#">165TA5274</a>
	37	21	37,5	 OFF ON ON	12 V	Blade 6,3 mm With light	<a href="#">146TA5426</a>
	37	21	38	 Mom. ON OFF Mom. ON	24 V	Blade 6,3 mm	<a href="#">146TA1809</a>
	37	21	39	 ON ON ON	28 V 125 V	Blade 6,3 mm	<a href="#">165TA5401</a>
	37	21	39,5	 ON OFF ON	12 V	Blade 6,3 mm	<a href="#">147TA1183</a>
	37	21	40,5	 ON OFF ON	12 V 24 V	Blade 6,3 mm	<a href="#">165TA5398</a>

# ROCKER SWITCHES



## ROCKER SWITCHES

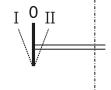
Nº of connections: 6

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	44	OFF ON ON 	12 V 24 V	Blade 6,3 mm Light optional	<a href="#">165TA5520</a>
	38	21	37	Mom. ON OFF Mom. ON 	125 V 250 V	Blade 6,3 mm	<a href="#">165TA5372</a>
	42	27	22,5	ON ON 	12 V 24 V	Pin	<a href="#">165TA5267</a>
	132	56	58,5	ON ON ON 	125 V 250 V	Blade 6,3 mm	<a href="#">165TA5266</a>

# ROCKER SWITCHES



Nº of connections: 7

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	38	 ON OFF ON		24 V Blade 6,3 mm With light	<a href="#">165TA5380</a>

# ROCKER SWITCHES

## ROCKER SWITCHES

Nº of connections: 8

		Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
		36,5	19	41,5	ON ON	I I	12 V Pin With light	<a href="#">134TA2823</a>
		36,5	21	39	ON Mom. ON	I I	6 V Blade 6,3 mm With light	<a href="#">165TA5200</a>
		37	21	36	ON OFF ON	I O II	24 V Blade 6,3 mm With light	<a href="#">165TA5498</a>
		37	21	37	OFF ON ON	II I O	12 V Blade 6,3 mm With light	<a href="#">165TA5335</a>
		37	21	37	OFF ON ON	II I O	12 V Blade 6,3 mm With light	<a href="#">146TA5430</a>
		37	21	37,5	ON ON	I I	12 V Blade 6,3 mm With light	<a href="#">165TA5290</a>
		37	21	37,5	ON ON	I I	14 V Blade 6,3 mm With light	<a href="#">165TA5390</a>
		37	21	37,5	ON ON	I I	24 V Blade 6,3 mm With light	<a href="#">165TA5469</a>

# ROCKER SWITCHES



Nº of connections: 8

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	37,5	OFF ON ON 	12 V	Blade 6,3 mm With light	<a href="#">165TA5297</a>
	37	21	37,5	OFF ON ON 	12 V	Blade 6,3 mm With light	<a href="#">165TA5296</a>
	37	21	37,5	OFF ON ON 	12 V	Blade 6,3 mm With light	<a href="#">165TA5294</a>
	37	21	38	ON ON 	12 V	Blade 6,3 mm With light	<a href="#">165TA5295</a>
	37	21	38,5	ON ON 	12 V	Blade 6,3 mm With light	<a href="#">165TA5531</a>
	37	21	44,5	ON ON 	12 V 24 V	Blade 6,3 mm Light optional	<a href="#">165TA5566</a>
	37	21	44,5	ON ON 	12 V	Blade 6,3 mm With light	<a href="#">165TA5552</a>
	42	20	34,5	... ... 	24 V	Blade 6,3 mm With light	<a href="#">134TA2824</a>

# ROCKER SWITCHES



## ROCKER SWITCHES

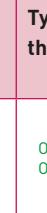
Nº of connections: 8

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	200	50	40	OFF Mom. ON	12 V 24 V	Blade 6,3 mm, wire with pin, wire with connector, type of position of the second actuator: 2H	<a href="#">144TA6880</a>

# ROCKER SWITCHES



Nº of connections: 9

 	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	50		12 V 24 V	Blade 6,3 mm Light optional	<a href="#">165TA5483</a>

ROCKER SWITCHES

# ROCKER SWITCHES



## ROCKER SWITCHES

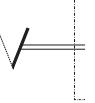
Nº of connections: 10

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	37	21	38	ON ON ON II I III	12 V	Blade 6,3 mm With light	<a href="#">165TA5532</a>
	37	21	38,5	ON OFF ON	12 V	Blade 6,3 mm With light	<a href="#">165TA5533</a>
	44	22	43	ON ON	28 V	Blade 6,3 mm With light	<a href="#">165TA5338</a>
	44	22	50,5	ON ON	12 V 24 V	Blade 6,3 mm Light optional	<a href="#">165TA5565</a>
	44	22	50,5	ON ON Mom. ON	12 V 24 V	Blade 6,3 mm Light optional	<a href="#">146TA4525</a>

# ROCKER SWITCHES



Nº of connections: 12

	Built-in length mm	Built-in width mm	Built-in height mm	Type of position of the first actuator	Voltage - min. - max.	Remark	REF
	44	22	44,5	... ... 		Blade 6,3 mm With light	<a href="#">165TA5443</a>

# ROCKER SWITCHES



## NOTES

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# STEERING COLUMN SWITCHES

# STEERING COLUMN SWITCHES



## TECHNICAL SHEET



## TECHNICAL SHEET

### STEERING COLUMN SWITCH

Group  
**02-03-03-00**

Example



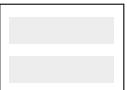
Customer details

Type of machine: .....

Price inquiry

Serial n° machine: .....

Order

 QTY-CON..... Number of connections

TY-CON..... Type of the connection:

*CON = connector*

*F4,8 = blade 4,8 mm*

*F6,3 = blade 6,3 mm*

*F9,5 = blade 9,5 mm*

*PIN = pin*

*SCR = screw*

*ST = stud*

*WIRE = wire*

*WC = wire with connector*

*WP = wire with pin*

*SP = special*

 I..... Current (A)

 U1..... Minimum voltage (V)

 U2..... Maximum voltage (V)

 QTY-WIRE..... Number of wires

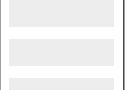
 QTY-PIN..... Number of pins

 D1..... Diameter of the steering column mounting (mm)

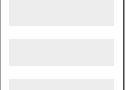
 L1..... Total length of the steering column switch (mm)

 W1..... Total width of the steering column switch (mm)

 H1..... Total height of the steering column switch (mm)

 D2..... Total diameter of the steering column switch (mm)

 L2..... Length of the cable (mm)

 QTY-HO..... Number of mounting holes

 D3..... Diameter of the mounting holes (mm)

 TA1..... Type of thread

 TA1-SUB..... Subtype of thread

 Pm1..... Pitch (metric) (mm)

 Pi1..... Pitch (inch)

 RH/LH..... Right- or left-handed thread

# STEERING COLUMN SWITCHES



## TECHNICAL SHEET

C1 .....	Shortest centre distance between mounting holes (mm)
C2 .....	Longest centre distance between mounting holes (mm)
MAT-H.....	Material of the housing: <i>MET</i> = metal <i>METPLT</i> = metal plastic <i>PLT</i> = plastic
IP.....	IP value/protection
QTY-LEV .....	Number of levers
F0-PR.....	Forward present (yes/no)
NE-PR.....	Neutral present (yes/no)
RE-PR.....	Reverse present (yes/no)
NE-LOCK-PR ..	Neutral lock present (yes/no)
SLOW-PR .....	Low speed present (yes/no)
PARK-PR .....	Parking position present (yes/no)
FAST-PR .....	High speed present (yes/no)
GEAR-PR .....	Gear present (yes/no)
QTY-GEAR.....	Number of gears
AUTO-GEAR ...	Automatic gear selection present (yes/no)
CRU-PR .....	Cruise control present (yes/no)
HORN-PR .....	Horn present (yes/no)
LR-PR.....	Left/right direction indicator present (yes/no)
POS-PR.....	Position light present (yes/no)
LOW-PR .....	Low beam present (yes/no)
HIGH-PR.....	High beam present (yes/no)
HBF-PR .....	High beam flashing present (yes/no)
MLS-PR .....	Master light switch present (yes/no)
AUTO-LHT .....	Automatic light present (yes/no)
FOG-PR.....	Fog light present (yes/no)
WARN-PR.....	Warning light present (yes/no)
WORK-PR.....	Worklight present (yes/no)
REVO-PR.....	Revolving/strobe light present (yes/no)
WIP-PR.....	Wiper present (yes/no)
WSW-PR.....	Windscreen washer present (yes/no)

# STEERING COLUMN SWITCHES

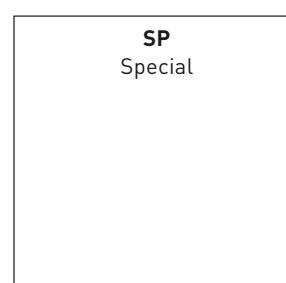
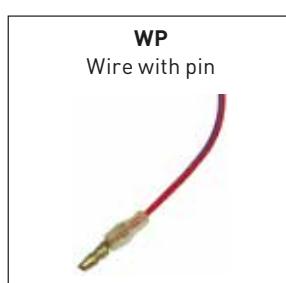
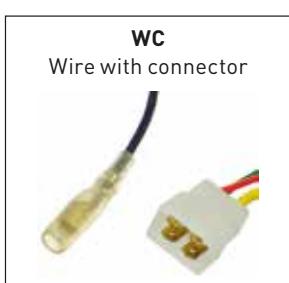
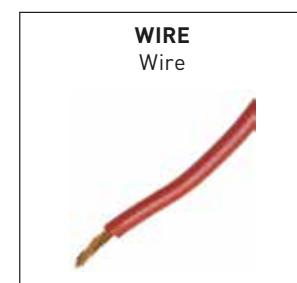
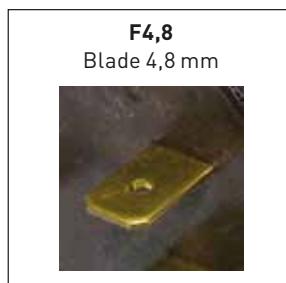


## TECHNICAL SHEET

### QTY-CON/QTY-WIRE/QTY-PIN



### TY-CON: TYPE OF CONNECTION



# STEERING COLUMN SWITCHES



## TECHNICAL SHEET

### FUNCTIONS

FO-PR	↑	
NE-PR	●	
RE-PR	↓	
SLOW-PR		
FAST-PR		
AUTO-GEAR		
CRU-PR		
HORN-PR		
LR-PR	↔ ↔	
POS-PR		
LOW-PR		

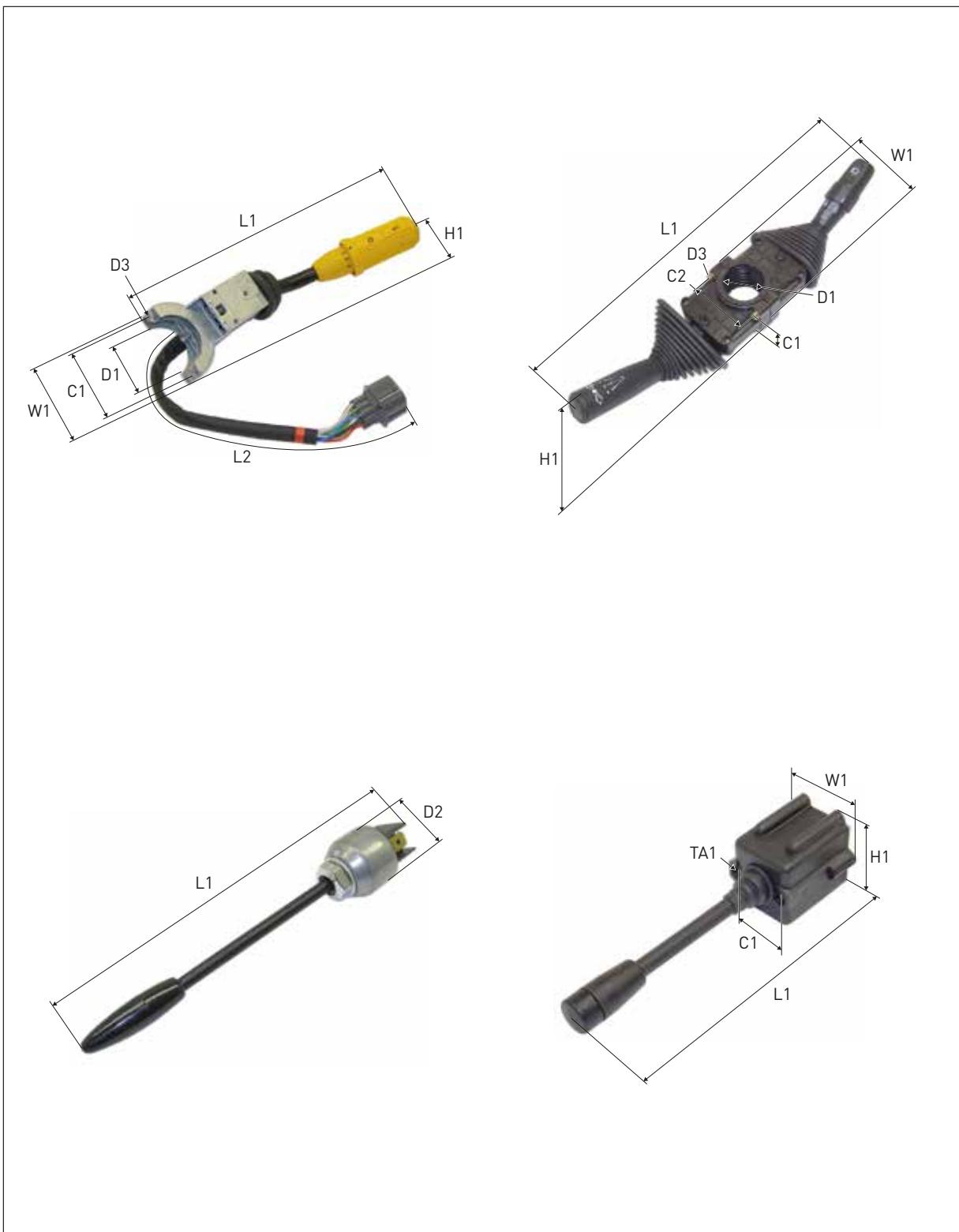
HIGH-PR	
HBF-PR	
FOG-PR	
WARN-PR	
WORK-PR	
REVO-PR	
WIP-PR	
WSW-PR	

# STEERING COLUMN SWITCHES



## TECHNICAL SHEET

### DIMENSIONS



**TVH PARTS NV**  
Brabantstraat 15 · 8790 Waregem · Belgium  
T +32 56 43 42 11 · F +32 56 43 44 88 · info@tvh.com · www.tvh.com  
BTW BE 0425 399 042 · RLP Gent - division Kortrijk 0425 399 042  
BNP Paribas Fortis 285-0448248-40 · IBAN BE02 2850 4482 4840 · SWIFT/BIC GEBABEBB



## TECHNICAL SHEET



## TECHNISCHE FICHE

### STUURKOLOMSCHAKELAAR

Groep

**02-03-03-00**

Voorbeeld



Gegevens klant

Type machine: .....

Prijsaanvraag

Serienr. machine: .....

Bestelling

QTY-CON..... Aantal aansluitingen

TY-CON..... Type aansluiting:

*CON = connector*

*F4,8 = blad 4,8 mm*

*F6,3 = blad 6,3 mm*

*F9,5 = blad 9,5 mm*

*PIN = pin*

*SCR = schroef*

*ST = bout*

*WIRE = kabel*

*WC = kabel met connector*

*WP = kabel met pin*

*SP = speciaal*

I..... Stroom (A)

U1 ..... Minimale spanning (V)

U2 ..... Maximale spanning (V)

QTY-WIRE..... Aantal kabels

QTY-PIN ..... Aantal pinnen

D1 ..... Diameter van de stuurkolombevestiging (mm)

L1 ..... Totale lengte van de stuurkolomschakelaar (mm)

W1 ..... Totale breedte van de stuurkolomschakelaar (mm)

H1 ..... Totale hoogte van de stuurkolomschakelaar (mm)

D2 ..... Totale diameter van de stuurkolomschakelaar (mm)

L2 ..... Lengte van de kabel (mm)

QTY-HO..... Aantal bevestigingsgaten

D3 ..... Diameter van de bevestigingsgaten (mm)

TA1 ..... Type schroefdraad

TA1-SUB..... Subtype schroefdraad

Pm1..... Spoed (metrisch) (mm)

Pi1..... Spoed (inch)

RH/LH..... Rechtse of linkse schroefdraad

# STEERING COLUMN SWITCHES



## TECHNICAL SHEET

C1 .....	Kortste centerafstand tussen de bevestigingsgaten (mm)
C2 .....	Langste centerafstand tussen de bevestigingsgaten (mm)
MAT-H.....	Materiaal van de behuizing: <i>MET = metaal</i> <i>METPLT = metaal plastic</i> <i>PLT = plastic</i>
IP.....	IP-waarde/beschermingsgraad
QTY-LEV .....	Aantal hendels
FO-PR.....	Vooruit aanwezig (ja/nee)
NE-PR.....	Neutraal aanwezig (ja/nee)
RE-PR.....	Achteruit aanwezig (ja/nee)
NE-LOCK-PR ..	Neutraalvergrendeling aanwezig (ja/nee)
SLOW-PR .....	Lage snelheid aanwezig (ja/nee)
PARK-PR .....	Parkeerstand aanwezig (ja/nee)
FAST-PR .....	Hoge snelheid aanwezig (ja/nee)
GEAR-PR .....	Versnelling aanwezig (ja/nee)
QTY-GEAR.....	Aantal versnellingen
AUTO-GEAR ...	Automatische versnelling aanwezig (ja/nee)
CRU-PR .....	Cruisecontrol aanwezig (ja/nee)
HORN-PR .....	Claxon aanwezig (ja/nee)
LR-PR.....	Linker/rechter richtingaanwijzer aanwezig (ja/nee)
POS-PR.....	Positielicht aanwezig (ja/nee)
LOW-PR .....	Dimlicht aanwezig (ja/nee)
HIGH-PR.....	Groot licht aanwezig (ja/nee)
HBF-PR .....	Knipperfunctie groot licht aanwezig (ja/nee)
MLS-PR .....	Hoofdlichtschakelaar (ja/nee)
AUTO-LHT .....	Automatisch licht aanwezig (ja/nee)
FOG-PR.....	Mistlicht aanwezig (ja/nee)
WARN-PR.....	Waarschuwingslicht aanwezig (ja/nee)
WORK-PR.....	Werklicht aanwezig (ja/nee)
REVO-PR.....	Zwaai-/flitslicht aanwezig (ja/nee)
WIP-PR.....	Ruitenwisser aanwezig (ja/nee)
WSW-PR.....	Ruitensproeier aanwezig (ja/nee)



## TECHNICAL SHEET



## FICHE TECHNIQUE

### COMMUTATEUR DE COLONNE DE DIRECTION

Groupe  
**02-03-03-00**

Exemple



Données client

Type machine : .....

Demande de prix

No. série machine : .....

Commande

**QTY-CON.....** Nombre de connexions

**TY-CON.....** Type de connexion :

*CON = connecteur*

*F4,8 = cosse plate 4,8 mm*

*F6,3 = cosse plate 6,3 mm*

*F9,5 = cosse plate 9,5 mm*

*PIN = broche*

*SCR = vis*

*ST = goujon*

*WIRE = câble*

*WC = câble avec connecteur*

*WP = câble avec broche*

*SP = spéciale*

**I.....** Courant (A)

**U1.....** Tension minimale (V)

**U2.....** Tension maximale (V)

**QTY-WIRE.....** Nombre de câbles

**QTY-PIN.....** Nombre de broches

**D1.....** Diamètre de la fixation de colonne de direction (mm)

**L1.....** Longueur totale du commutateur de colonne de direction (mm)

**W1.....** Largeur totale du commutateur de colonne de direction (mm)

**H1.....** Hauteur totale du commutateur de colonne de direction (mm)

**D2.....** Diamètre total du commutateur de colonne de direction (mm)

**L2.....** Longueur du câble (mm)

**QTY-HO.....** Nombre de trous de fixation

**D3.....** Diamètre des trous de fixation (mm)

**TA1.....** Type de filetage

**TA1-SUB.....** Sous-type de filetage

**Pm1.....** Pas métrique (mm)

**Pi1.....** Pas (pouce)

**RH/LH.....** Filetage à droite ou à gauche

# STEERING COLUMN SWITCHES



## TECHNICAL SHEET

C1 .....	Entraxe le plus court entre les trous de fixation (mm)
C2 .....	Entraxe le plus long entre les trous de fixation (mm)
MAT-H.....	Matériau du boîtier :
MET =	<i>métal</i>
METPLT =	<i>plastique-métal</i>
PLT =	<i>plastique</i>
IP.....	Valeur IP / protection
QTY-LEV .....	Nombre de leviers
FO-PR.....	Marche avant présente (oui/non)
NE-PR.....	Point mort présent (oui/non)
RE-PR.....	Marche arrière présente (oui/non)
NE-LOCK-PR ..	Verrouillage du point mort présent (oui/non)
SLOW-PR .....	Vitesse lente présente (oui/non)
PARK-PR .....	Position de stationnement présente (oui/non)
FAST-PR .....	Vitesse rapide présente (oui/non)
GEAR-PR .....	Engrenage présent (oui/non)
QTY-GEAR.....	Nombre d'engrenages
AUTO-GEAR ...	Engrenage automatique présent (oui/non)
CRU-PR .....	Régulateur de vitesse présent (oui/non)
HORN-PR .....	Klaxon présent (oui/non)
LR-PR.....	Clignotant gauche/droit présent (oui/non)
POS-PR.....	Feu de position présent (oui/non)
LOW-PR .....	Feu de croisement présent (oui/non)
HIGH-PR.....	Feu de route présent (oui/non)
HBF-PR .....	Fonction de clignotement feu de route présente (oui/non)
MLS-PR .....	Interrupteur d'éclairage principal présent (oui/non)
AUTO-LHT .....	Feu automatique présent (oui/non)
FOG-PR.....	Feu antibrouillard présent (oui/non)
WARN-PR.....	Feu de détresse présent (oui/non)
WORK-PR.....	Phare de travail présent (oui/non)
REVO-PR.....	Gyrophare / feu à éclats présent (oui/non)
WIP-PR.....	Essuie-glace présent (oui/non)
WSW-PR.....	Lave-glace présent (oui/non)



## TECHNICAL SHEET



## TECHNISCHES DATENBLATT

### LENKSÄULENSCHALTER

Gruppe  
**02-03-03-00**

Beispiel



Kundendaten

Maschinentyp: .....

Preisanfrage

Serien-Nr. Maschine: .....

Bestellung

 QTY-CON..... Anzahl der Anschlüsse

TY-CON..... Art des Anschlusses:

CON = Stecker

F4,8 = Flachstecker 4,8 mm

F6,3 = Flachstecker 6,3 mm

F9,5 = Flachstecker 9,5 mm

PIN = Stift

SCR = Schraube

ST = Bolzen

WIRE = Kabel

WC = Kabel mit Stecker

WP = Kabel mit Stift

SP = Sonderanschluss

I..... Strom (A)

U1..... Minimale Spannung (V)

U2..... Maximale Spannung (V)

QTY-WIRE..... Anzahl der Kabel

QTY-PIN..... Anzahl der Stifte

D1..... Durchmesser der Öffnung des Lenksäulenschalters (mm)

L1..... Gesamtlänge des Lenksäulenschalters (mm)

W1..... Gesamtbreite des Lenksäulenschalters (mm)

H1..... Gesamthöhe des Lenksäulenschalters (mm)

D2..... Gesamtdurchmesser des Lenksäulenschalters (mm)

L2..... Länge des Kabels (mm)

QTY-HO..... Anzahl der Montagebohrungen

D3..... Durchmesser der Montagebohrungen (mm)

TA1..... Art des Gewindes

TA1-SUB..... Unterart des Gewindes

Pm1..... Steigung (metrisch) (mm)

Pi1..... Steigung (Zoll)

RH/LH..... Rechtshändiges oder linkshändiges Gewinde

# STEERING COLUMN SWITCHES



## TECHNICAL SHEET

C1 .....	Kürzester Mittenabstand zwischen Montagebohrungen (mm)
C2 .....	Längster Mittenabstand zwischen Montagebohrungen (mm)
MAT-H.....	Material des Gehäuses: <i>MET = Metall</i> <i>METPLT = Metallplastik</i> <i>PLT = Kunststoff</i>
IP.....	IP-Wert/Schutz
QTY-LEV .....	Anzahl der Hebel
FO-PR .....	Vorwärts-Funktion vorhanden (ja/nein)
NE-PR.....	Neutral vorhanden (ja/nein)
RE-PR.....	Rückwärts-Funktion vorhanden (ja/nein)
NE-LOCK-PR ..	Neutral-Verriegelung vorhanden (ja/nein)
SLOW-PR .....	Langsame Geschwindigkeit vorhanden (ja/nein)
PARK-PR .....	Parken-Funktion vorhanden (ja/nein)
FAST-PR .....	Schnelle Geschwindigkeit vorhanden (ja/nein)
GEAR-PR .....	Getriebe vorhanden (ja/nein)
QTY-GEAR.....	Anzahl der Gänge
AUTO-GEAR ...	Automatische Gangwahl vorhanden (ja/nein)
CRU-PR .....	Tempomat vorhanden (ja/nein)
HORN-PR .....	Hupe vorhanden (ja/nein)
LR-PR.....	Fahrrichtungsanzeiger links/rechts vorhanden (ja/nein)
POS-PR.....	Positionslicht vorhanden (ja/nein)
LOW-PR .....	Abblendlicht vorhanden (ja/nein)
HIGH-PR.....	Fernlicht vorhanden (ja/nein)
HBF-PR .....	Blink-Fernlicht vorhanden (ja/nein)
MLS-PR .....	Schalter für Scheinwerfer vorhanden (ja/nein)
AUTO-LHT .....	Automatiklicht vorhanden (ja/nein)
FOG-PR.....	Nebelscheinwerfer vorhanden (ja/nein)
WARN-PR.....	Warnleuchte vorhanden (ja/nein)
WORK-PR.....	Arbeitsscheinwerfer vorhanden (ja/nein)
REVO-PR.....	Rundum-/Blitzlicht vorhanden (ja/nein)
WIP-PR.....	Scheibenwischer vorhanden (ja/nein)
WSW-PR.....	Scheibenwascheinheit vorhanden (ja/nein)

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	22	251	77,5	90			<a href="#">146TA3173</a>
	25	192	65,5	100			<a href="#">165TA7642</a>
	31	198	70	110			<a href="#">146TA2590</a>
	31	208		110	70		<a href="#">165TA7746</a>
	31	208		110	70		<a href="#">165TA6178</a>
	34,5	230	89	75			<a href="#">165TA7837</a>
	34,5	231	88,5	82			<a href="#">147TA1956</a>
	34,5	253	89	90			<a href="#">165TA7845</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES



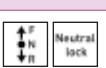
Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	35	174	76,5	110			<a href="#">165TA7675</a>
	35	212	89,5	80			<a href="#">165TA7784</a>
	35,5	215	50	85			<a href="#">165TA7613</a>
	36	122	101	70			<a href="#">165TA7655</a>
	36	219	65	90			<a href="#">146TA9358</a>
	36,5	220	67	90			<a href="#">146TA9361</a>
	36,5	270	80,5	90			<a href="#">165TA7753</a>
	38	173,5	43	50			<a href="#">146TA1771</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	38	174,5	43,5	46			<a href="#">146TA1894</a>
	38	175	43	52			<a href="#">146TA6899</a>
	38	180	90	125			<a href="#">146TA5459</a>
	38	185	110	110			<a href="#">141TA7765</a>
	38	190	65	80			<a href="#">141TA7769</a>
	38	198	43,5	70			<a href="#">146TA5111</a>
	38	227	90,5	98			<a href="#">165TA7842</a>
	38	228	90,5	100			<a href="#">165TA7840</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES

Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	38	228	90,5	100			<a href="#">165TA7844</a>
	38	228	90,5	95			<a href="#">165TA7841</a>
	38	228	90,5	97			<a href="#">165TA7834</a>
	38	238	68	65			<a href="#">146TA7977</a>
	38	264	66	111			<a href="#">147TA2473</a>
	38,5	205	65	90			<a href="#">146TA3432</a>
	38,5	271	76,5	130			<a href="#">165TA7829</a>
	39	238	68	70			<a href="#">138TA9623</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	39	238	78	105			<a href="#">165TA7691</a>
	39	240	78,5	110			<a href="#">165TA7647</a>
	39,5	204	69,5	80			<a href="#">147TA1221</a>
	39,5	235	68	65			<a href="#">147TA2205</a>
	40	155	75,5	158			<a href="#">146TA8008</a>
	40	188	64	70			<a href="#">146TA7971</a>
	40	194	65	63			<a href="#">146TA8002</a>
	40	210	64	85			<a href="#">141TA7772</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	40	211	68	85			<a href="#">165TA7678</a>
	40	216	69,5	80			<a href="#">165TA7610</a>
	40	217	81,5	95			<a href="#">128TA5863</a>
	40	218	64	70			<a href="#">165TA7874</a>
	40	238	68	70			<a href="#">146TA7976</a>
	40,5	255	67,5	108			<a href="#">165TA7863</a>
	41	250	67,5	100			<a href="#">147TA2250</a>
	42	241	67,5	105			<a href="#">165TA7650</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	42	245	67,5	116			<a href="#">165TA7864</a>
	42	255	88,5	80			<a href="#">146TA8556</a>
	42	257	88,5	71			<a href="#">165TA7640</a>
	42	260	67	107			<a href="#">146TA3661</a>
	42	260	67,5	110			<a href="#">146TA9357</a>
	42,5	258	75,5	120			<a href="#">165TA7718</a>
	43	234	88,5	70			<a href="#">146TA8966</a>
	44	210	78,5	88			<a href="#">165TA7768</a>

# STEERING COLUMN SWITCHES



## STEERING COLUMN SWITCHES

Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	44	295	71	155			<a href="#">165TA7700</a>
	44,5	208	70,5	85			<a href="#">165TA7771</a>
	44,5	234	76,5	115		 	<a href="#">165TA7671</a>
	44,5	250	70	48		 	<a href="#">165TA7660</a>
	44,5	250	76	120		   	<a href="#">146TA9285</a>
	44,5	250	76	121		   	<a href="#">146TA6393</a>
	44,5	250	76	128		     	<a href="#">165TA7730</a>
	44,5	252	70	48		   	<a href="#">165TA7661</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	44,5	254	69,5	112			<a href="#">165TA7735</a>
	44,5	254	76	127			<a href="#">146TA4714</a>
	44,5	255	76,5	125			<a href="#">165TA7729</a>
	44,5	255	76,5	130			<a href="#">146TA6951</a>
	44,5	257	69,5	120			<a href="#">165TA7703</a>
	44,5	257	79	120			<a href="#">146TA6962</a>
	44,5	258	73,5	115			<a href="#">165TA7723</a>
	44,5	259	78,5	120			<a href="#">165TA7704</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES

Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	44,5	262	76,5	130			<a href="#">165TA7720</a>
	44,5	262	80,5	115			<a href="#">139TA5104</a>
	44,5	264	71	115			<a href="#">165TA7736</a>
	44,5	266	70	98			<a href="#">146TA7741</a>
	44,5	292	74	115			<a href="#">146TA6960</a>
	44,5	292	80,5	120			<a href="#">165TA7783</a>
	44,5	294	73,5	113			<a href="#">165TA7708</a>
	44,5	302	75	130			<a href="#">165TA7645</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	44,5	303	75	125		Neutral lock	<a href="#">165TA7827</a>
	44,5	303	76,5	120		Neutral lock  Horn	<a href="#">146TA9302</a>
	45	203	76,5	110		Neutral lock	<a href="#">165TA7766</a>
	45	208	72,5	85			<a href="#">165TA7819</a>
	45	215	89	100			<a href="#">165TA7838</a>
	45	217	88,5	100			<a href="#">146TA8967</a>
	45	228	76,5	125			<a href="#">165TA7858</a>
	45	230	76,5	120			<a href="#">146TA7964</a>

# STEERING COLUMN SWITCHES



## STEERING COLUMN SWITCHES

Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	45	234	76,5	120			<a href="#">165TA7860</a>
	45	235	76,5	130			<a href="#">165TA7595</a>
	45	235	76,5	130			<a href="#">146TA7953</a>
	45	247	65	120			<a href="#">165TA7670</a>
	45	251	75	112			<a href="#">146TA3462</a>
	45	252	76	125			<a href="#">146TA9300</a>
	45	254	70,5	120			<a href="#">146TA7751</a>
	45	254	76	120			<a href="#">165TA7817</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

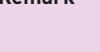
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	45	255	70	110			<a href="#">165TA7737</a>
	45	255	70	115			<a href="#">146TA7728</a>
	45	255	70	115			<a href="#">165TA7740</a>
	45	255	75,5	130			<a href="#">165TA7731</a>
	45	255	77,5	95			<a href="#">165TA7877</a>
	45	258	70	115			<a href="#">165TA7734</a>
	45	259	70	125			<a href="#">165TA7773</a>
	45	260	70	110			<a href="#">165TA7732</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	45	260	77	105			<a href="#">165TA7825</a>
	45	263	77	95			<a href="#">146TA8978</a>
	45	285	77	125			<a href="#">146TA9303</a>
	45	286	77,5	150			<a href="#">165TA7882</a>
	45	300	77	100			<a href="#">165TA7782</a>
	45,5	216	89	100			<a href="#">147TA1955</a>
	45,5	236	77	130			<a href="#">165TA7859</a>
	45,5	240	76,5	120			<a href="#">165TA7591</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	45,5	245	78	115			<a href="#">165TA7861</a>
	45,5	245	79	95			<a href="#">165TA7607</a>
	45,5	245	80	95			<a href="#">165TA7608</a>
	45,5	246	79,5	95			<a href="#">165TA7604</a>
	45,5	246	80	90			<a href="#">165TA7603</a>
	45,5	257	79	75			<a href="#">165TA7605</a>
	45,5	264	77,5	100			<a href="#">165TA7875</a>
	45,5	264	77,5	105			<a href="#">165TA7883</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES

Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	45,5	290	77	95		 Neutral lock	<a href="#">165TA7853</a>
	45,5	303	85	105			<a href="#">146TA3554</a>
	45,5	304	83	115			<a href="#">165TA7643</a>
	46	255	79,5	115			<a href="#">128TA5864</a>
	49,5	232	80	92		 Neutral lock	<a href="#">146TA9752</a>
	50	232	80,5	90		 Neutral lock	<a href="#">165TA7799</a>
	50	244	80,5	127		  	<a href="#">165TA7717</a>
	53	237	77	130		 Neutral lock 	<a href="#">165TA7714</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		113	62,5	175			<a href="#">165TA7793</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		114	39	70			<a href="#">165TA7611</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		118	65	45			<a href="#">165TA7687</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		130	79	90			<a href="#">165TA7635</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		132	65	45			<a href="#">146TA5293</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		132,5	44,5	65			<a href="#">146TA6294</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		150	39	105			<a href="#">165TA7673</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		150	54	80			<a href="#">146TA2930</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		150	81,5	68			<a href="#">165TA7629</a>
		151	85	68			<a href="#">165TA7627</a>
		153	39	110			<a href="#">165TA7672</a>
		154	86,5	75			<a href="#">146TA3143</a>
		155	29,5	40			<a href="#">165TA7684</a>
		161	86	80			<a href="#">165TA6634</a>
		161	87	80			<a href="#">165TA7628</a>
		163	76	110			<a href="#">165TA7637</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		166	64	65			<a href="#">165TA7656</a>
		168	61,5	115			<a href="#">165TA7662</a>
		169	63,5	70			<a href="#">165TA7787</a>
		169	79	98			<a href="#">141TA7764</a>
		170	62	116			<a href="#">146TA4414</a>
		170	79	110			<a href="#">165TA7694</a>
		173	33,5	122			<a href="#">165TA7847</a>
		175	48	55			<a href="#">165TA7711</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		175	92	92			<a href="#">146TA2946</a>
		178	40,5	120			<a href="#">165TA7665</a>
		178	62	155			<a href="#">146TA8962</a>
		180	54	90			<a href="#">165TA7597</a>
		180	62,5	155			<a href="#">146TA8963</a>
		183	87	90			<a href="#">146TA3138</a>
		185	86	90			<a href="#">146TA3684</a>
		185	87	90			<a href="#">146TA3676</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		190	45	44			<a href="#">165TA7686</a>
		190	86	93			<a href="#">146TA3194</a>
		190	86,5	95			<a href="#">165TA7600</a>
		190	87	95			<a href="#">146TA3675</a>
		190	87	97			<a href="#">141TA7762</a>
		190,5	46,5	43			<a href="#">116TA5302</a>
		191	46,5	43			<a href="#">146TA6287</a>
		191	55,5	70			<a href="#">165TA7794</a>

# STEERING COLUMN SWITCHES



## STEERING COLUMN SWITCHES

Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		191	87,5	92			<a href="#">165TA7630</a>
		199	81,5	91			<a href="#">146TA3677</a>
		215	53	55		Neutral lock	<a href="#">165TA7756</a>
		215	64	55		Neutral lock	<a href="#">165TA7755</a>
		219	62	105			<a href="#">165TA7668</a>
		220	46	60		Neutral lock	<a href="#">165TA7667</a>
		220	58	125			<a href="#">165TA7811</a>
		222	43,5	75			<a href="#">165TA7754</a>

# STEERING COLUMN SWITCHES



Nº of connections: 1

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		222	46	110			<a href="#">165TA7800</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		224	53,5	47			<a href="#">165TA7690</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		224	53,5	47			<a href="#">165TA7689</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		245	83,5	180			<a href="#">165TA7797</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		278	112,5	95			<a href="#">146TA3622</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		280	81	167			<a href="#">165TA7618</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		374	78	180			<a href="#">165TA7757</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES



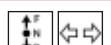
Nº of connections: 2

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	22	278	112	100		     	<a href="#">165TA7631</a>
	34,5	421	88,5	100		      	<a href="#">165TA7843</a>
	34,5	442	89	115		    	<a href="#">165TA7816</a>
	35	420	89,5	100		     	<a href="#">165TA7836</a>
	38	285	80	130		     	<a href="#">165TA7763</a>
	38	366	69,5	70		     	<a href="#">147TA2262</a>
	38,5	237	68	66			<a href="#">147TA2206</a>
	38,5	390	68	58		     	<a href="#">146TA8370</a>

# STEERING COLUMN SWITCHES



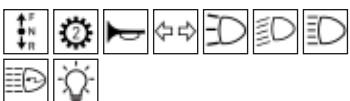
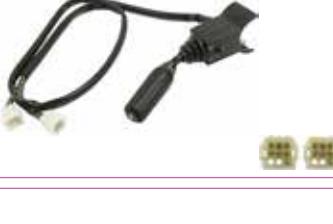
Nº of connections: 2

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	39	415	70	80			<a href="#">165TA7855</a>
	39,5	363	80	60			<a href="#">165TA7791</a>
	39,5	415	70	75			<a href="#">165TA7812</a>
	40,5	367	70	70			<a href="#">165TA7744</a>
	42	412	110	130			<a href="#">146TA9364</a>
	42	417	68,5	70			<a href="#">165TA7814</a>
	42,5	410	109	137			<a href="#">165TA7790</a>
	42,5	410	112	120			<a href="#">165TA7697</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES

Nº of connections: 2

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	43	425	88	79			<a href="#">165TA7820</a>
	44,5	235	76	117			<a href="#">146TA3587</a>
	44,5	249	75,5	64			<a href="#">165TA7727</a>
	44,5	257	74	118			<a href="#">165TA7823</a>
	44,5	257	79	117			<a href="#">115TA2887</a>
	44,5	258	78	125			<a href="#">165TA7707</a>
	44,5	258	79	120			<a href="#">165TA7709</a>
	44,5	259	76,5	125			<a href="#">165TA7850</a>

# STEERING COLUMN SWITCHES



Nº of connections: 2

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	44,5	260	79	123			<a href="#">146TA6961</a>
	44,5	290	79,5	115			<a href="#">165TA7826</a>
	44,5	303	75	125			<a href="#">165TA7590</a>
	45	210	78,5	80			<a href="#">165TA7769</a>
	45	233	46	120			<a href="#">146TA7994</a>
	45	233	76	120			<a href="#">146TA7992</a>
	45	250	76,5	130			<a href="#">165TA7745</a>
	45	253	76	128			<a href="#">146TA6359</a>

# STEERING COLUMN SWITCHES



## STEERING COLUMN SWITCHES

Nº of connections: 2

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	45	253	76	128			<a href="#">165TA7721</a>
	45	254	71,5	125			<a href="#">165TA7767</a>
	45	258	78	125			<a href="#">165TA7706</a>
	45	307	76	135			<a href="#">146TA7944</a>
	45	313	72	105			<a href="#">146TA4581</a>
	45	498	76	120			<a href="#">146TA8682</a>
	45,5	305	85	110			<a href="#">146TA3561</a>
	47,5	217	83,5	93			<a href="#">165TA7619</a>

# STEERING COLUMN SWITCHES



Nº of connections: 2

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		144,5			25	Blade 6,3 mm	<a href="#">146TA6276</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		148	78,5	92			<a href="#">141TA7771</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		180	44	130			<a href="#">165TA7663</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		212	62,5	145			<a href="#">165TA7760</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		241	48	95			<a href="#">165TA7659</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		255	88,5	80			<a href="#">146TA8557</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		408	92,5	115			<a href="#">165TA7636</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES

Nº of connections: 3

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	19	355	99,5	105			<a href="#">165TA7682</a>
	19	357	100	105			<a href="#">165TA7614</a>
	19	367	99,5	97			<a href="#">146TA5490</a>
	21,5	425	75	86			<a href="#">147TA2208</a>
	22	351	112	85			<a href="#">146TA3178</a>
	22	409	112	100			<a href="#">146TA3683</a>
	22	418	110	93			<a href="#">165TA7648</a>
	35	435	79	75			<a href="#">165TA7696</a>

# STEERING COLUMN SWITCHES



Nº of connections: 3

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	35	437	80	76			<a href="#">165TA7778</a>
	37,5	210	66,5	49			<a href="#">165TA7685</a>
	38	175	43	73			<a href="#">165TA7702</a>
	38,5	474	77,5	120			<a href="#">146TA8494</a>
	39	368	70	70			<a href="#">165TA7871</a>
	39	418	82	83			<a href="#">165TA7802</a>
	39,5	363	70	75			<a href="#">165TA5830</a>
	40	229	64	45			<a href="#">165TA7649</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES



Nº of connections: 3

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	40,5	363	69,5	75			<a href="#">165TA7872</a>
	40,5	389	68	61			<a href="#">147TA2256</a>
	41	415	69,5	80			<a href="#">165TA7832</a>
	41,5	361	70	60			<a href="#">165TA7870</a>
	42	269	67,5	110			<a href="#">165TA7695</a>
	42,5	400	110,5	130			<a href="#">146TA9359</a>
	43	255	89	79			<a href="#">146TA4384</a>
	45	498	76,5	120			<a href="#">146TA8403</a>

# STEERING COLUMN SWITCHES



Nº of connections: 3

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	45	500	76,5	130		     	<a href="#">165TA7777</a>
	49,5	255	80,5	110		  	<a href="#">165TA7751</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		123	56,5	57			<a href="#">165TA7652</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		124,5	56,5	28			<a href="#">165TA7602</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		125,5	44	37		 Blade 6,3 mm	<a href="#">146TA4422</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		192	45	48			<a href="#">146TA6278</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		195	42	76			<a href="#">165TA7651</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		272	108,5	122		 Blade 6,3 mm	<a href="#">146TA4850</a>

# STEERING COLUMN SWITCHES



STEERING COLUMN SWITCHES

Nº of connections: 3

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
			44	37		 Blade 6,3 mm	<a href="#">146TA8127</a>

# STEERING COLUMN SWITCHES



Nº of connections: 4

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	19	365	100	130			<a href="#">165TA7680</a>
	20	235	102	105			<a href="#">165TA7633</a>
	22	410	111	100			<a href="#">146TA3672</a>
	22	410	111,5	100			<a href="#">165TA6857</a>
	22	410	112	98			<a href="#">165TA7601</a>
	23,5	385	93,5	80			<a href="#">165TA7865</a>
	28,5	352	112	88			<a href="#">146TA3177</a>
	37,5	421	70	75			<a href="#">165TA7803</a>

# STEERING COLUMN SWITCHES

## STEERING COLUMN SWITCHES



Nº of connections: 4

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF	
	38	498	80,5	135		      		<a href="#">165TA7750</a>
	38,5	320	97,5	95		      		<a href="#">165TA7634</a>
	39,5	358	70,5	80		      		<a href="#">165TA7868</a>
	40	173,5	43	50			<a href="#">165TA7848</a>	
	40	358	99,5	125		      		<a href="#">146TA2922</a>
	40	364	70	70		      		<a href="#">165TA7804</a>
	42,5	263	88,5	105			<a href="#">165TA7658</a>	
	45	252	76,5	122		      		<a href="#">146TA6954</a>

# STEERING COLUMN SWITCHES



Nº of connections: 5

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	36,5	263	80,5	115			<a href="#">165TA7807</a>
	37	218	79,5	58			<a href="#">115TA2877</a>
	42,5	256	89	97			<a href="#">146TA4361</a>
	42,5	271	89	115			<a href="#">165TA7657</a>
	43	246	88,5	122			<a href="#">146TA4370</a>
	44	255	60	56			<a href="#">106TA1452</a>
	44,5	263	80	113			<a href="#">165TA7879</a>
		235	44,5	120			<a href="#">165TA7759</a>

# STEERING COLUMN SWITCHES



Nº of connections: 5

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		238	92,5	68			<a href="#"><u>146TA1708</u></a>

# STEERING COLUMN SWITCHES



Nº of connections: 6

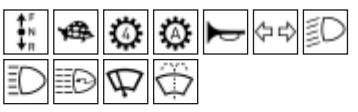
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	23,5	208	72	68		Blade 4,8 mm	<a href="#">165TA7821</a>
		159	34,5	0		Blade 6,3 mm	<a href="#">116TA5345</a>

# STEERING COLUMN SWITCHES



## STEERING COLUMN SWITCHES

Nº of connections: 7

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	42,5	257	88,5	100			<a href="#">146TA7145</a>
	45	495	76	125			<a href="#">146TA6953</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		113	63,5	165			<a href="#">165TA7710</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		145	36	65		 Blade 6,3 mm	<a href="#">165TA7677</a>
	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		162	44	42		 Blade 6,3 mm	<a href="#">165TA7779</a>

# STEERING COLUMN SWITCHES



Nº of connections: 8

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	30,5	273	65,5	110			<a href="#">165TA7715</a>
	38,5	261	77,5	95			<a href="#">165TA7780</a>
	42,5	256	89	100			<a href="#">146TA8953</a>
	45	261	66	120			<a href="#">146TA2354</a>
	45	272	64	125			<a href="#">146TA8228</a>
		120	36	81			<a href="#">146TA4604</a>
		142	53,5		30		<a href="#">106TA2609</a>
		145	80,5	55			<a href="#">146TA1972</a>

# STEERING COLUMN SWITCHES



STEERING COLUMN SWITCHES

Nº of connections: 8

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		180	58,5	125		 Blade 6,3 mm	<a href="#">165TA7716</a>

# STEERING COLUMN SWITCHES



Nº of connections: 9

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	36,5	286	80	130			<a href="#">147TA2476</a>
	38	243	64,5	120			<a href="#">165TA7762</a>
	42,5	258	89	80			<a href="#">165TA7849</a>
	51	278	109	110		Blade 4,8 mm	<a href="#">146TA8183</a>
		110	66	145			<a href="#">165TA7749</a>

# STEERING COLUMN SWITCHES



STEERING COLUMN SWITCHES

Nº of connections: 10

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	44,5	254	70	123		     	<a href="#">165TA7676</a>
	44,5	254	70	126		     	<a href="#">146TA5261</a>
	44,5	264,5	70,5	94		     	<a href="#">146TA5239</a>
		180	63,5	114		 	<a href="#">165TA7796</a>

# STEERING COLUMN SWITCHES



Nº of connections: 12

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
		168	53,5	45			<a href="#"><u>106TA2610</u></a>

# STEERING COLUMN SWITCHES



## STEERING COLUMN SWITCHES

Nº of connections: 0

	Mounting diameter mm	Total length mm	Total width mm	Total height mm	Total diameter mm	Remark	REF
	45	235	83	132			<a href="#">146TA1719</a>
	45,5	343	125,5	129			<a href="#">165TA6969</a>



# BATTERY SWITCHES



## TECHNICAL SHEET



## TECHNICAL SHEET

**BATTERY DISCONNECT SWITCH**

Group  
**02-06-04-00**

Example



Customer details

Type of machine: .....

Price inquiry

Serial n° machine: .....

Order

 TY-CON ..... Type of connection:

*HO* = hole

*ST* = stud

*SP* = special

POS-CON ..... Position of the connection:

*CR00* = slanting

*STR* = straight

*SP* = special

I ..... Current (A)

U ..... Voltage (V)

QTY-POLE ..... Number of poles on the battery disconnect switch

AUX-SWIT ..... Auxiliary switch present (yes/no)

TY-ACTU ..... Type of actuator:

*1PIN* = 1-pin handle

*2PIN* = 2-pin handle

*FIX* = fixed handle

*KEY* = key

*PULL* = pull handle

*SP* = special

D1 ..... Nominal diameter of the connection (mm)

TA1 ..... Type of thread connection

Pm1..... Pitch metric

Pi1..... Pitch inch

D2 ..... Top built-in diameter of the battery disconnect switch (mm)

L1 ..... Top built-in length of the battery disconnect switch (mm)

W1 ..... Top built-in width of the battery disconnect switch (mm)

L2 ..... Length of the panel mount thread (mm)

L3 ..... Bottom built-in length of the battery disconnect switch (mm)

W2 ..... Bottom built-in width of the battery disconnect switch (mm)

H1 ..... Bottom built-in height of the battery disconnect switch (mm)

D3 ..... Bottom built-in diameter of the battery disconnect switch (mm)



## TECHNICAL SHEET

- |               |  |
|---------------|--|
| L4 .....      | Total length of the battery disconnect switch (mm)   |
| W3.....       | Total width of the battery disconnect switch (mm)  |
| H2 .....      | Total height of the battery disconnect switch (mm)   |
| D4 .....      | Total diameter of the battery disconnect switch (mm)   |
| QTY-HO .....  | Number of mounting holes   |
| C1 .....      | Shortest centre distance between mounting holes (mm)   |
| C2 .....      | Longest centre distance between mounting holes (mm)  |
| D5 .....      | Diameter of the mounting holes (mm)  |
| MAT-H.....    | Material of the housing:<br><i>MET = metal</i><br><i>METPL = metal + plastic</i><br><i>PL = plastic</i>  |
| MAT-ACTU .... | Material of the actuator:<br><i>MET = metal</i><br><i>METPL = metal + plastic</i><br><i>PL = plastic</i> |
| IP.....       | IP value/protection class  |

## TY-CON: TYPE OF CONNECTION



**ST**  
Stud



**SP**  
Special

## POS-CON: POSITION OF THE CONNECTION



**STR**  
Straight



**SP**  
Special



## TECHNICAL SHEET

### QTY-POLE: NUMBER OF POLES ON THE BATTERY DISCONNECT SWITCH

1



2



### AUX-SWIT: AUXILIARY SWITCH PRESENT



### TY-ACTU: TYPE OF ACTUATOR

**1PIN**  
1-pin handle



**2PIN**  
2-pin handle



**FIX**  
Fixed handle



**KEY**  
Key



**PULL**  
Pull handle



**SP**  
Special

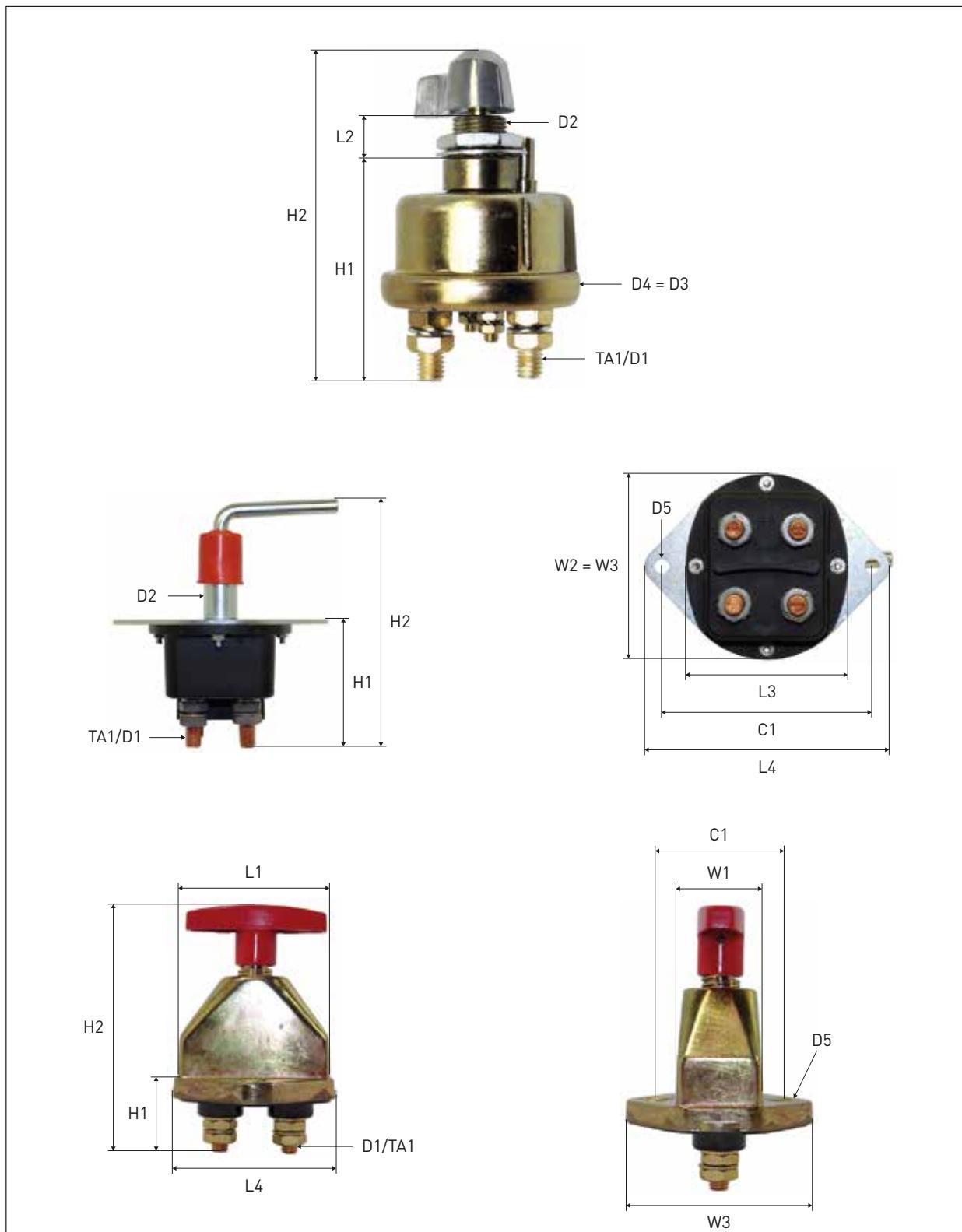
# BATTERY SWITCHES



## TECHNICAL SHEET

### DIMENSIONS

BATTERY SWITCHES



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BNP Paribas Fortis 285-0448248-40 · IBAN BE02 2850 4482 4840 · SWIFT/BIC GEBABEBB



## TECHNICAL SHEET



## TECHNISCHE FICHE

### BATTERIJSCHAKELAAR

Groep  
**02-06-04-00**

Voorbeeld



Gegevens klant

Type machine: .....

Prijsaanvraag

Serienr. machine: .....

Bestelling



TY-CON ..... Type van aansluiting:

*H0 = gat*

*ST = bout*

*SP = speciaal*

POS-CON ..... Positie van de aansluiting:

*CROO = schuin*

*STR = recht*

*SP = speciaal*

I ..... Stroom (A)

U ..... Spanning (V)

QTY-POLE ..... Aantal polen op de batterijschakelaar

AUX-SWIT ..... Hulpcontacten aanwezig (ja/nee)

TY-ACTU ..... Type bediening:

*1PIN = hendel 1 pin*

*2PIN = hendel 2 pinnen*

*FIX = vaste hendel*

*KEY = sleutel*

*PULL = trekhendel*

*SP = speciaal*

D1 ..... Nominale diameter van de aansluiting (mm)

TA1 ..... Type schroefdraad van de aansluiting

Pm1..... Spoed metrisch

Pi1..... Spoed inch

D2 ..... Bovenste inbouwdiameter van de batterijschakelaar (mm)

L1 ..... Bovenste inbouwlengte van de batterijschakelaar (mm)

W1 ..... Bovenste inbouwbreedte van de batterijschakelaar (mm)

L2 ..... Lengte van de schroefdraad voor paneel bevestiging (mm)

L3 ..... Onderste inbouwlengte van de batterijschakelaar (mm)

W2 ..... Onderste inbouwbreedte van de batterijschakelaar (mm)

H1 ..... Onderste inbouwhoogte van de batterijschakelaar (mm)

D3 ..... Onderste inbouwdiameter van de batterijschakelaar (mm)

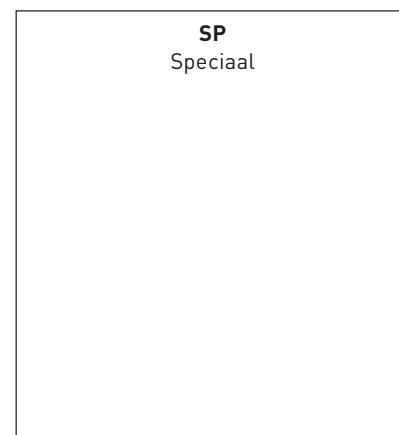


## TECHNICAL SHEET

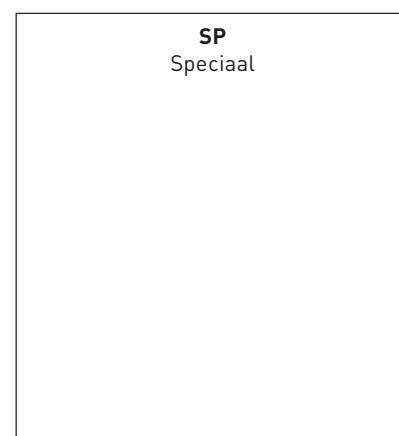


- L4 ..... Totale lengte van de batterischakelaar (mm)  
 W3 ..... Totale breedte van de batterischakelaar (mm)  
 H2 ..... Totale hoogte van de batterischakelaar (mm)  
 D4 ..... Totale diameter van de batterischakelaar (mm)  
 QTY-HO ..... Aantal bevestigingsgaten  
 C1 ..... Kortste centerafstand van de bevestigingsgaten (mm)  
 C2 ..... Langste centerafstand van de bevestigingsgaten (mm)  
 D5 ..... Diameter van het bevestigingsgat (mm)  
 MAT-H ..... Materiaal van de behuizing:  
     *MET = metaal*  
     *METPL = metaal + kunststof*  
     *PL = kunststof*  
 MAT-ACTU .... Materiaal van de bediening:  
     *MET = metaal*  
     *METPL = metaal + kunststof*  
     *PL = kunststof*  
 IP..... IP-waarde/beschermingsklasse

## TY-CON: TYPE AANSLUITING



## POS-CON: POSITIE VAN DE AANSLUITING





## TECHNICAL SHEET



## FICHE TECHNIQUE

### COUPE BATTERIE

Groupe

**02-06-04-00**

Exemple



Données client

Type machine : .....

Demande de prix

No. série machine : .....

Commande



TY-CON ..... Type de connexion :

*H0 = trou*

*ST = goujon*

*SP = spécial*

POS-CON ..... Position de connexion :

*CROO = oblique*

*STR = droit*

*SP = spécial*

I ..... Courant (A)

U ..... Voltage (V)

QTY-POLE ..... Nombre de pôles sur le coupe batterie

AUX-SWIT ..... Contact auxiliaire présent (oui/non)

TY-ACTU ..... Type d'actionneur :

*1PIN = 1 ergot avec poignée*

*2PIN = 2 ergots avec poignée*

*FIX = poignée fixe*

*KEY = clé*

*PULL = actionneur à tirette*

*SP = spécial*

D1 ..... Diamètre nominal de la connexion (mm)

TA1 ..... Type de filetage de la connexion

Pm1..... Pas métrique

Pi1..... Pas en pouce

D2 ..... Diamètre d'encastrement supérieur du coupe batterie (mm)

L1 ..... Longueur d'encastrement supérieure du coupe batterie (mm)

W1..... Largeur d'encastrement supérieure du coupe batterie (mm)

L2 ..... Longueur de filetage pour montage sur panneau (mm)

L3 ..... Longueur d'encastrement inférieure du coupe batterie (mm)

W2..... Largeur d'encastrement inférieure du coupe batterie (mm)

H1 ..... Hauteur d'encastrement du coupe batterie (mm)

D3 ..... Diamètre d'encastrement inférieur du coupe batterie (mm)

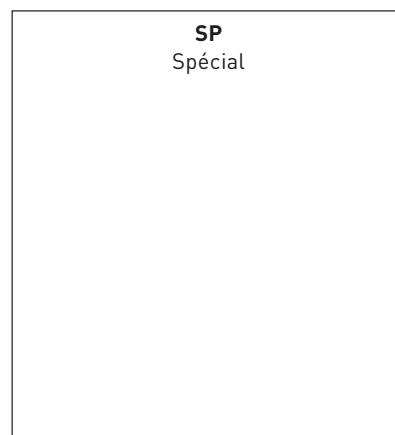


## TECHNICAL SHEET

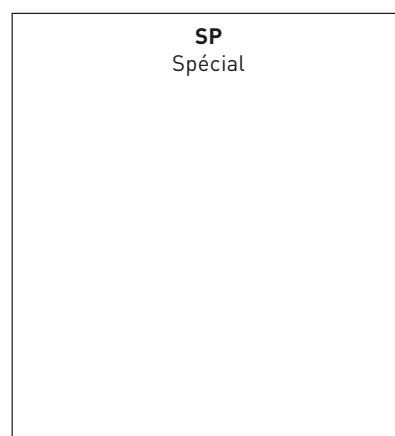


- L4 ..... Longueur totale du coupe batterie (mm)
- W3 ..... Largeur totale du coupe batterie (mm)
- H2 ..... Hauteur totale du coupe batterie (mm)
- D4 ..... Diamètre total du coupe batterie (mm)
- QTY-HO ..... Nombre de trous de fixation
- C1 ..... Plus petit entraxe des trous de fixation (mm)
- C2 ..... Plus grand entraxe des trous de fixation (mm)
- D5 ..... Diamètre du trou de fixation (mm)
- MAT-H ..... Matière du boîtier :
  - MET* = métal
  - METPL* = métal plastique
  - PL* = plastique
- MAT-ACTU ..... Matière de l'actionneur :
  - MET* = métal
  - METPL* = métal plastique
  - PL* = plastique
- IP ..... Valeur IP

## TY-CON : TYPE DE CONNEXION



## POS-CON : POSITION DE CONNEXION





## TECHNICAL SHEET



## TECHNISCHES DATENBLATT

**BATTERIETRENNSCHALTERS**

Gruppe  
**02-06-04-00**

Beispiel



Kundendaten

Maschinentyp: .....

Preisanfrage

Serien-Nr. Maschine: .....

Bestellung

TY-CON ..... Typ des Anschlusses:

*HO = Loch*

*ST = Bolzen*

*SP = Sonderanschluss*

POS-CON ..... Position des Anschlusses:

*CR00 = schief*

*STR = gerade*

*SP = Sonderposition*

I ..... Strom (A)

U ..... Spannung (V)

QTY-POLE ..... Anzahl der Pole auf dem Batterietrennschalter

AUX-SWIT ..... Hilfsschalter vorhanden (ja/nein)

TY-ACTU ..... Typ des Aktuators:

*1PIN = Hebel mit 1 Stift*

*2PIN = Hebel mit 2 Stiften*

*FIX = fester Hebel*

*KEY = Schlüssel*

*PULL = Zughebel*

*SP = Sonderaktuator*

D1 ..... Nenndurchmesser des Anschlusses (mm)

TA1 ..... Typ des Gewindeanschlusses

Pm1..... Pitch (metrisch)

Pi1..... Pitch (Zoll)

D2 ..... Oberer eingebauter Durchmesser des Batterietrennschalters (mm)

L1 ..... Obere eingebaute Länge des Batterietrennschalters (mm)

W1..... Obere eingebaute Breite des Batterietrennschalters (mm)

L2 ..... Länge des Gewindes für Tafelmontage (mm)

L3 ..... Untere eingebaute Länge des Batterietrennschalters (mm)

W2..... Untere eingebaute Breite des Batterietrennschalters (mm)

H1 ..... Untere eingebaute Höhe des Batterietrennschalters (mm)

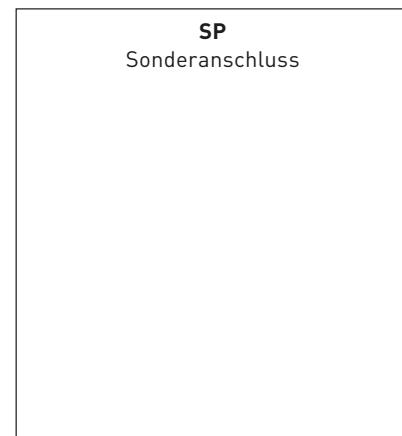
D3 ..... Unterer eingebauter Durchmesser des Batterietrennschalters (mm)



## TECHNICAL SHEET

L4 .....	Gesamtlänge des Batterietrennschalters (mm)
W3.....	Gesamtbreite des Batterietrennschalters (mm)
H2 .....	Gesamthöhe des Batterietrennschalters (mm)
D4 .....	Gesamtdurchmesser des Batterietrennschalters (mm)
QTY-HO .....	Anzahl der Befestigungslöcher
C1 .....	Kürzester Mittenabstand zwischen Befestigungslöcher (mm)
C2 .....	Längster Mittenabstand zwischen Befestigungslöcher (mm)
D5 .....	Durchmesser der Befestigungslöcher (mm)
MAT-H.....	Material des Gehäuses: <i>MET = Metall</i> <i>METPL = Metall Kunststoff</i> <i>PL = Kunststoff</i>
MAT-ACTU ....	Material des Aktuators: <i>MET = Metall</i> <i>METPL = Metall Kunststoff</i> <i>PL = Kunststoff</i>
IP.....	IP-Wert/Schutzklasse

## TY-CON: TYP DES ANSCHLUSSES

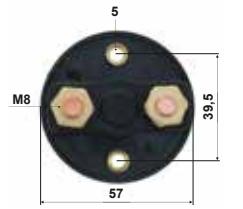
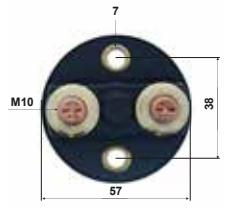
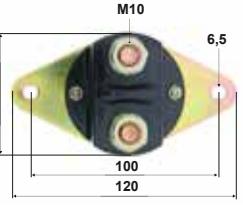
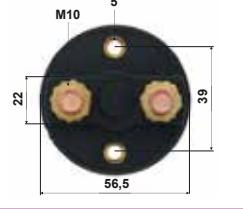
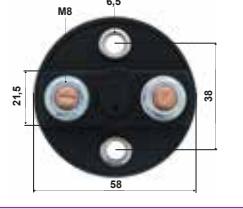


## POS-CON: POSITION DES ANSCHLUSSES



# BATTERY SWITCHES

## BATTERY SWITCHES

BATTERY SWITCHES					
	Current A	Nº of poles	Type of actuator	REF of complete switch	REF key
	20	1	Fix	<a href="#">126TA5253</a>	
					
	50	1	1 pin	<a href="#">165TA7526</a>	<a href="#">165TA9413</a>
					
	75	1	Key	<a href="#">123TA7672</a>	<a href="#">165TA9414</a>
					
	100	1	1 pin	<a href="#">165TA7495</a>	<a href="#">165TA9699</a>
					
	100	1	1 pin	<a href="#">165TA7522</a>	
					
	100	1	1 pin	<a href="#">165TA7477</a>	<a href="#">165TA9413</a>
					
	100	1	1 pin	<a href="#">165TA7530</a>	
					
	100	1	Fix	<a href="#">146TA2771</a>	
					

# BATTERY SWITCHES



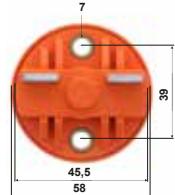
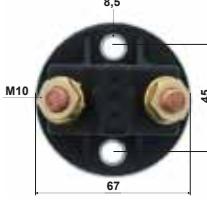
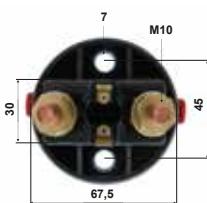
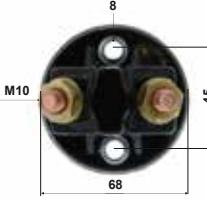
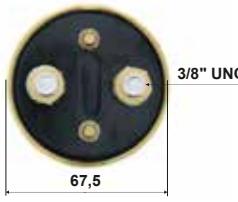
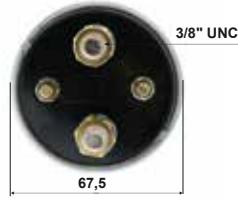
## BATTERY SWITCHES

		Current A	Nº of poles	Type of actuator	REF of complete switch	REF key
		100	1	Key	<a href="#">146TA8817</a>	
		100	1	1 pin	<a href="#">165TA7524</a>	<a href="#">165TA9413</a>
		100	1	1 pin	<a href="#">140TA8820</a>	
		100	1	1 pin	<a href="#">165TA7529</a>	<a href="#">165TA9415</a>
		125	1	Fix	<a href="#">164TA1267</a>	<a href="#">165TA9629</a>
		125	1	Fix	<a href="#">147TA6858</a>	<a href="#">164TA1220</a>
		125	1	Fix	<a href="#">146TA8252</a>	
		150	1	2 pin	<a href="#">165TA7482</a>	<a href="#">165TA9700</a>

# BATTERY SWITCHES

## BATTERY SWITCHES

### BATTERY SWITCHES

		Current A	Nº of poles	Type of actuator	REF of complete switch	REF key
		150	1	2 pin	<a href="#">165TA7488</a>	<a href="#">165TA9416</a>
		150	1	2 pin	<a href="#">165TA7525</a>	<a href="#">134TA8713</a>
		150	1	Fix	<a href="#">144TA6019</a>	
		150	1	Fix	<a href="#">134TA8697</a>	
		175	1	Fix	<a href="#">165TA7520</a>	
		175	1	Fix	<a href="#">165TA4437</a>	<a href="#">164TA1220</a>
		175	1	Fix	<a href="#">165TA7527</a>	
		175	1	Key	<a href="#">110TA8155</a>	<a href="#">129TA3137</a>

# BATTERY SWITCHES

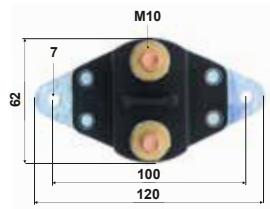
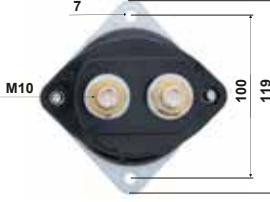
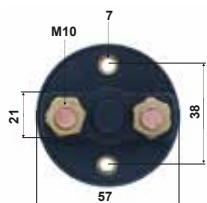
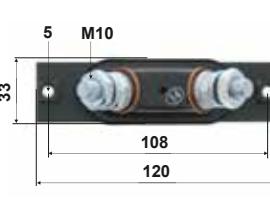
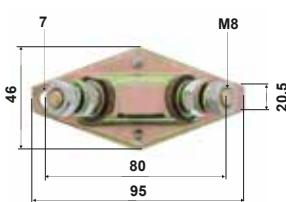
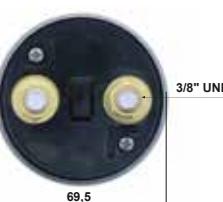


## BATTERY SWITCHES

		Current A	Nº of poles	Type of actuator	REF of complete switch	REF key
		175	1	Fix	<a href="#">140TA8822</a>	
		200	1	2 pin	<a href="#">165TA7476</a>	<a href="#">165TA9700</a>
		250	1	2 pin	<a href="#">146TA7617</a>	<a href="#">134TA8714</a>
		250	1	Fix	<a href="#">165TA7534</a>	
		250	1	1 pin	<a href="#">165TA7532</a>	<a href="#">134TA8711</a>
		250	2	2 pin	<a href="#">165TA7523</a>	<a href="#">165TA2969</a>
		275	1	2 pin	<a href="#">165TA7528</a>	
		300	1	2 pin	<a href="#">146TA3884</a>	<a href="#">165TA9701</a>

# BATTERY SWITCHES

## BATTERY SWITCHES

BATTERY SWITCHES					
	Current A	Nº of poles	Type of actuator	REF of complete switch	REF key
		300	1	2 pin	<a href="#">165TA7531</a>
		350	1	2 pin	<a href="#">165TA7533</a>
		500	1	1 pin	<a href="#">165TA7487</a>
		600	1	Fix	<a href="#">147TA1384</a>
		134	1	Fix	<a href="#">134TA8701</a>
		140	1	Fix	<a href="#">140TA8821</a>
		147	1	Key	<a href="#">147TA1942</a>



# EMERGENCY SWITCHES

# EMERGENCY SWITCHES



## TECHNICAL SHEET



## TECHNICAL SHEET

**EMERGENCY STOP SWITCH HIGH CAPACITY**

Group  
**02-03-02-00**

Example



Customer details

Type of machine: .....

Price inquiry

Serial n° machine: .....

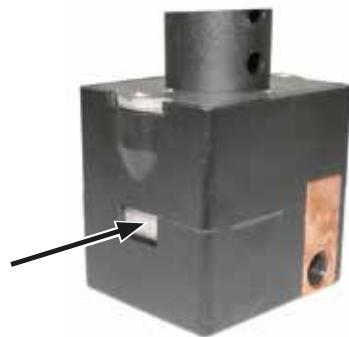
Order

	BRAND .....	Brand of the switch
	TYPE .....	Type of the switch
	I.....	Current (ampere)
	U.....	Highest tension (volt)
	KN.....	Knob present (yes/no)
	EX-CO .....	Auxilliary switch present (yes/no)
	BL-OU.....	Blow-out present (yes/no). If YES, fill out (SI-PO) side polarity
	LO-KE .....	Lockable with key (yes/no)
	Z1 .....	Maximum length of the front
	Z2 .....	Maximum length of the side
	D1 .....	Diameter of the switch, if round
	H1 .....	Total height in OFF-position
	H2 .....	Total height in ON-position
	D2 .....	Diameter of the knob, if round
	Z3 .....	Biggest side of the knob, if square
	Z4 .....	Smallest side of the knob, if square
	QTY-CO .....	Number of connections
	D3 .....	Diameter of the wire connection holes
	C .....	Centre distance between wire connection holes
	TY-SW .....	Configuration of the contacts: SP = single-pole DP = double-pole
	DUS-COV .....	Dust cover (yes/no)
	SI-PO.....	Side of polarity: R = right L = left
Only to be filled out if blow-out present (if not, fill out 0). Hold with the brand label to the front and then determine the position of the '+' pole (see drawings).		
TEX-TI .....		
ENC-COV .....		



## TECHNICAL SHEET

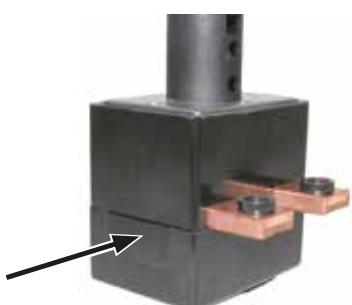
### DUS-COV: DUST COVER



### TEX-TI: TEXTURED TIPS



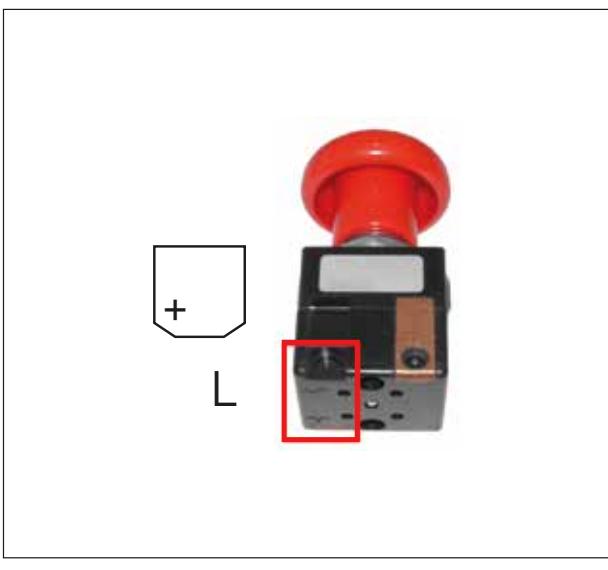
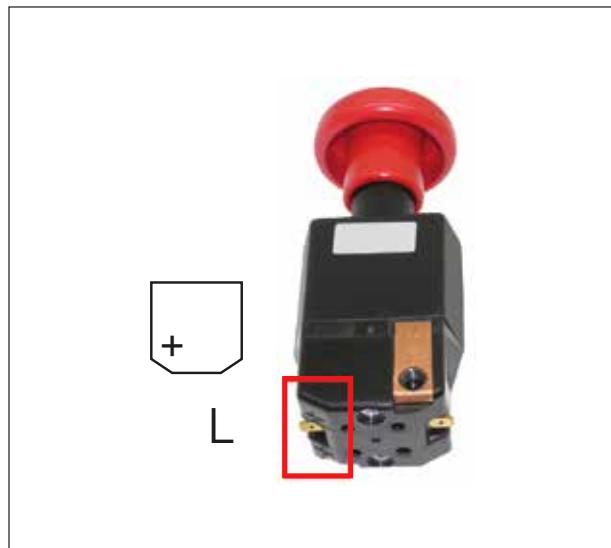
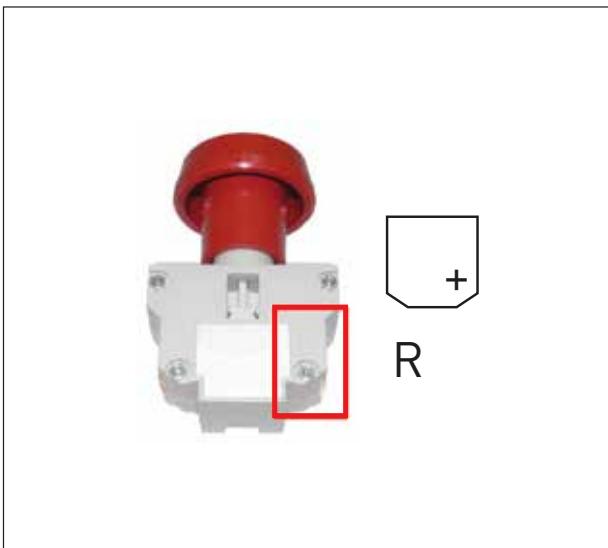
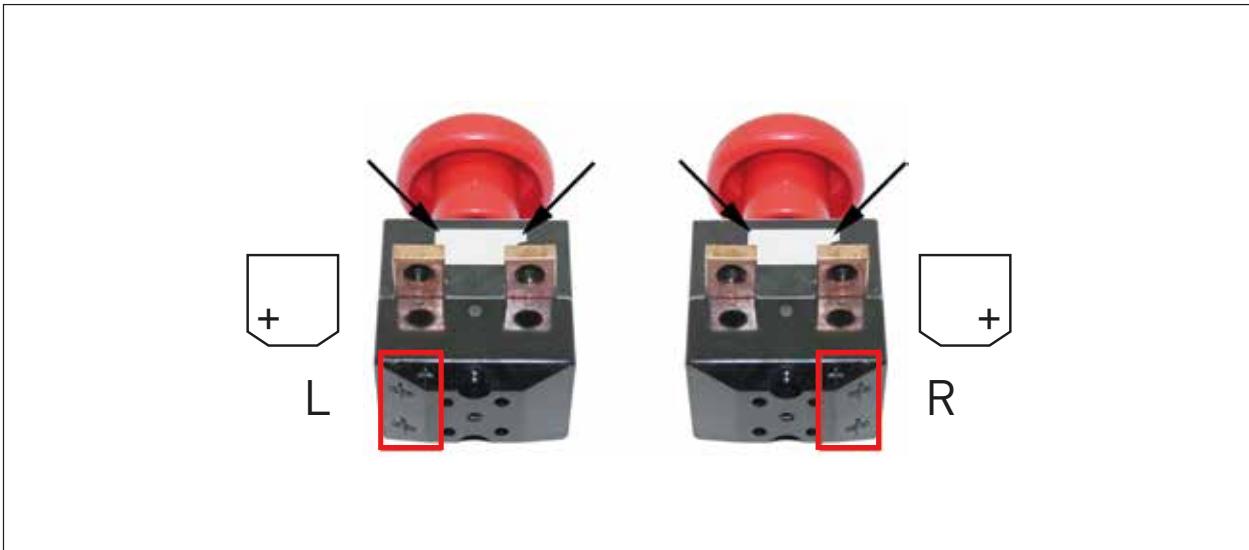
### ENC-COV: ENCLOSED COVER



# EMERGENCY SWITCHES



## SI-PO: SIDE OF POLARITY

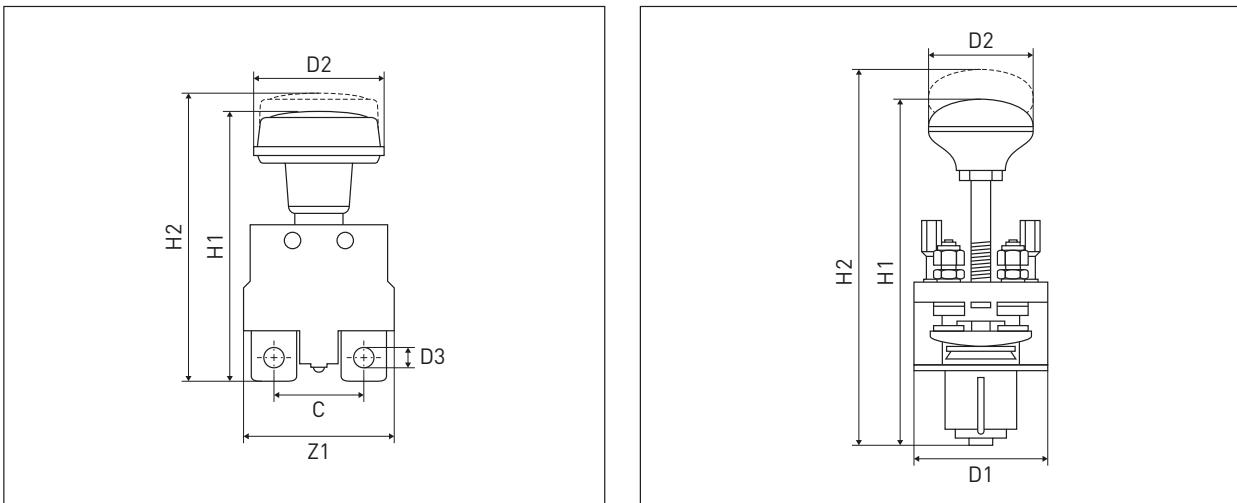
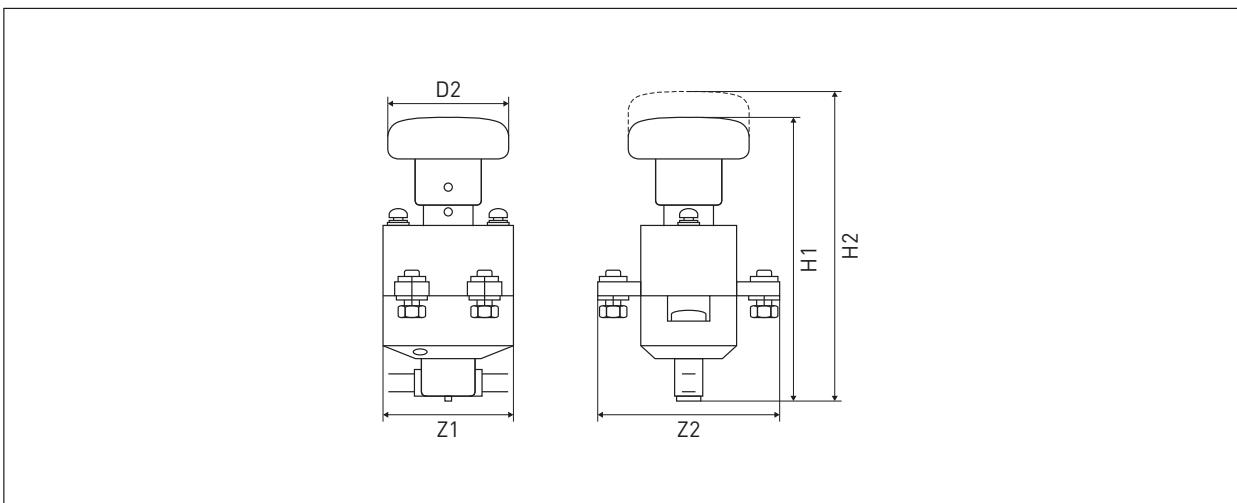


# EMERGENCY SWITCHES



## TECHNICAL SHEET

### DIMENSIONS



# EMERGENCY SWITCHES



## TECHNICAL SHEET



## TECHNISCHE FICHE

**NOODSTOPSCHAELAAR HOOG VERMOGEN**

Groep  
**02-03-02-00**

Voorbeeld



Gegevens klant

Type machine: .....

Prijsaanvraag

Serienr. machine: .....

Bestelling

BRAND .....	Merk van de schakelaar
TYPE .....	Type van de schakelaar
I.....	Elektrische stroom (ampère)
U.....	Hoogste spanning (volt)
KN.....	Knop aanwezig (ja/nee)
EX-CO .....	Hulpcontact aanwezig (ja/nee)
BL-OU.....	Blaasmagneten aanwezig (ja/nee). Indien JA, polariteit (SI-PO) invullen
LO-KE .....	Vergrendelbaar met sleutel (ja/nee)
Z1 .....	Maximale lengte van de voorzijde
Z2 .....	Maximale lengte van de zijkant
D1 .....	Diameter van de schakelaar, indien rond
H1 .....	Totale hoogte in OFF-stand
H2 .....	Totale hoogte in ON-stand
D2 .....	Diameter van de knop, indien rond
Z3 .....	Grootste lengte van de knop, indien rechthoekig
Z4 .....	Kleinste lengte van de knop, indien rechthoekig
QTY-CO .....	Totaal aantal aansluitingen
D3 .....	Diameter van de aansluitingsgaten
C .....	Centerafstand van de aansluitingsgaten
TY-SW .....	Configuratie van de contacten: SP = enkelpolig DP = dubbelpolig
DUS-COV .....	Stofplaat (ja/nee)
SI-PO.....	Kant van polariteit: R = rechts L = links
TEX-TI .....	Enkel van toepassing als blaasmagneten aanwezig zijn (anders 0 invullen). Merklabel vooraan houden en dan ligging van de "+" bepalen (zie figuren).
ENC-COV .....	Contact met textuur (ja/nee)
ENC-COV .....	Afgesloten kap (ja/nee)



## TECHNICAL SHEET

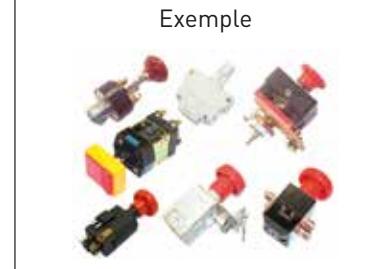


## FICHE TECHNIQUE

### ARRET D'URGENCE HAUTE PUISSANCE

Groupe  
**02-03-02-00**

Exemple



Données client

Type machine : .....

Demande de prix

No. série machine : .....

Commande

BRAND .....	Marque de l'interrupteur
TYPE .....	Type de l'interrupteur
I.....	Ampérage
U .....	Tension maximale (Volt)
KN.....	Bouton présent (oui/non)
EX-CO .....	Contact auxilliaire présent (oui/non)
BL-OU.....	Aimant de soufflage présent (oui/non). Si OUI, indiquer côté de polarité (SI-PO)
LO-KE .....	Vérrouillable à clé (oui/non)
Z1 .....	Longueur maximale de la face avant
Z2 .....	Longueur maximale du côté
D1 .....	Diamètre de l'interrupteur, si rond
H1 .....	Hauteur totale en position OFF
H2 .....	Hauteur totale en position ON
D2 .....	Diamètre du bouton, si rond
Z3 .....	Plus grande longueur du bouton, si rectangle
Z4 .....	Plus petite longueur du bouton, si rectangle
QTY-CO .....	Nombre de connexions
D3 .....	Diamètre des trous de connexion
C .....	Entraxe des trous de connexion
TY-SW .....	Configuration des contacts :
	SP = <i>unipolaire</i>
	DP = <i>bipolaire</i>
DUS-COV .....	Plaque cache poussière (oui/non)
SI-PO.....	Côté de polarité :
	R = <i>droit</i>
	L = <i>gauche</i>
	Doit être indiqué si le contacteur est muni d'aimants de soufflage (dans le cas contraire, remplir "0"). Tenir le contacteur avec l'étiquette portant la marque devant, puis définir la position du "+" (voir figures)
TEX-TI .....	Pastilles de contacts texturées (oui/non)
ENC-COV .....	Couvercle fermé (oui/non)



## TECHNICAL SHEET



## TECHNISCHES DATENBLATT

**NOTSTOP SCHALTER HOHE LEISTUNG**Gruppe  
**02-03-02-00**

Beispiel



Kundendaten

Maschinentyp: .....

Preisanfrage

Serien-Nr. Maschine: .....

Bestellung

BRAND .....	Marke von dem Schalter
TYPE .....	Schaltertyp
I.....	Elektrischer Strom (Ampere)
U.....	Höchste Spannung (Volt)
KN.....	Knopf anwesend (ja/nein)
EX-CO .....	Hilfskontakte anwesend (ja/nein)
BL-OU.....	Blasmagneten anwesend (ja/nein). Wenn ja, bitte Polarität (SI-PO) angeben
LO-KE .....	Abschließbar mit Schlüssel (ja/nein)
Z1 .....	Maximale Länge Vorderseite
Z2 .....	Maximale Seitenlänge
D1 .....	Durchmesser von dem Schalter, wenn rund
H1 .....	Gesamthöhe im OFF-Stand
H2 .....	Gesamthöhe im ON-Stand
D2 .....	Knopfdurchmesser, wenn rund
Z3 .....	Größte Knopflänge, wenn rechteckig
Z4 .....	Kleinste Knopflänge, wenn rechteckig
QTY-CO .....	Gesamtanzahl Anschlüsse
D3 .....	Durchmesser Anschlußlöcher
C .....	Lochabstand Anschlußlöcher
TY-SW .....	Polarität: SP = einpolig DP = doppeltpolig
DUS-COV .....	Staubplatte (ja/nein)
SI-PO.....	Seite Polarität: R = rechts L = links Nur verwendet wenn ein Blasmagnet anwesend ist (anders 0 ausfüllen) Markenhetiket nach vorne halten und dann die Lage von dem "+" bestimmen (siehe Figur)
TEX-TI .....	Textured tips (ja/nein)
ENC-COV .....	Geschlossene Haube (ja/nein)

# EMERGENCY SWITCHES



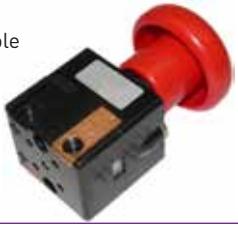
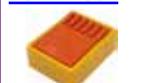
Used on: Albright

ED80-10 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	80	48	59 mm 46 mm	123 mm 128 mm	2 connections.	<a href="#">165TA3565</a>	<a href="#">107TA1103</a> 
ED80-14 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	80	48	59 mm 46 mm	94 mm 100 mm	2 connections.	<a href="#">165TA3587</a>	<a href="#">165TA3831</a>
ED125 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125	48	55 mm 43 mm	90 mm 96 mm	2 connections. Fitted with fixed contacts with M6 inserts.	<a href="#">139TA2590</a>	<a href="#">116TA5222</a> 
ED125 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125	48	55 mm 43 mm	90 mm 96 mm	2 connections.	<a href="#">165TA3612</a>	
ED125 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125	48	55 mm 43 mm	90 mm 96 mm	2 connections. Fitted with fixed contacts with M8 inserts.	<a href="#">165TA3614</a>	<a href="#">116TA5222</a> 
ED125 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125	48	55 mm 43 mm	90 mm 96 mm	2 connections. Longer operating shaft than REF 165TA3612.	<a href="#">139TA2588</a>	<a href="#">116TA5222</a> 
ED125 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125	48	55 mm 43 mm	94 mm 100 mm	2 connections.	<a href="#">139TA2592</a>	<a href="#">139TA2561</a> 
ED125 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125	48	55 mm 43 mm	100 mm 107 mm	2 connections. Lockable.	<a href="#">165TA3592</a>	<a href="#">165TA3819</a> 

# EMERGENCY SWITCHES

## EMERGENCY SWITCHES

Used on: Albright

ED125 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125	48	55 mm 43 mm	100 mm 107 mm	2 connections. Non-lockable.	<a href="#">107TA1102</a>	
	125	48	55 mm 43 mm	100 mm 107 mm	2 connections. Non-lockable, with dust plate.	<a href="#">139TA2595</a>	
	125	48	55 mm 43 mm	100 mm 107 mm	2 connections. Diameter connection: 7 mm.	<a href="#">165TA3621</a>	
	125	48	55 mm 43 mm	105 mm 110 mm	2 connections.	<a href="#">165TA3588</a>	
	125	48	55 mm 43 mm	117 mm 123 mm	4 connections.	<a href="#">165TA3628</a>	
	125	48	55 mm 43 mm	122 mm 128 mm	6 connections.	<a href="#">165TA3542</a>	
	125	48	55 mm 43 mm	130 mm 136 mm	6 connections.	<a href="#">165TA3615</a>	
	125	96	55 mm 43 mm	102 mm 109 mm	2 connections.	<a href="#">165TA3543</a>	

# EMERGENCY SWITCHES



Used on: **Albright**

ED150 Single-pole	Current <b>A</b>	Max voltage <b>V</b>	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	150	48	50 mm 43 mm	101 mm 108 mm	2 connections.	<a href="#">165TA3551</a>	<a href="#">165TA3819</a> 
	Current <b>A</b>	Max voltage <b>V</b>	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250	48	62 mm 55 mm	121 mm 132 mm	2 connections.	<a href="#">165TA3578</a>	<a href="#">139TA2555</a> 
	Current <b>A</b>	Max voltage <b>V</b>	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250	48	62 mm 64 mm	114 mm 125 mm	2 connections. With dust plate, without textured contact tip, without enclosed cover.	<a href="#">165TA3601</a>	<a href="#">165TA3819</a> 
	Current <b>A</b>	Max voltage <b>V</b>	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250	48	62 mm 64 mm	114 mm 125 mm	2 connections. Without dust plate, without textured contact tip, with enclosed cover.	<a href="#">165TA3538</a>	<a href="#">107TA1103</a> 
	Current <b>A</b>	Max voltage <b>V</b>	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250	48	62 mm 64 mm	114 mm 125 mm	2 connections. Lockable with key.	<a href="#">107TA1100</a>	<a href="#">165TA5003</a>
	Current <b>A</b>	Max voltage <b>V</b>	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250	48	62 mm 64 mm	114 mm 125 mm	2 connections. With enclosed cover.	<a href="#">165TA3582</a>	<a href="#">165TA3819</a> 
	Current <b>A</b>	Max voltage <b>V</b>	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250	48	62 mm 64 mm	114 mm 125 mm	2 connections. Without dust plate, without textured contact tip, without enclosed cover.	<a href="#">139TA5973</a>	<a href="#">107TA1103</a> 
	Current <b>A</b>	Max voltage <b>V</b>	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250	96	62 mm 55 mm	121 mm 132 mm	2 connections.	<a href="#">165TA3547</a>	<a href="#">139TA2555</a> 

# EMERGENCY SWITCHES

## EMERGENCY SWITCHES

Used on: Albright

ED250 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250	96	62 mm 64 mm	114 mm 125 mm	2 connections. Without blowout magnets.	<a href="#">165TA3597</a>	
	250	96	62 mm 64 mm	114 mm 125 mm	2 connections. With blowout magnets on the right.	<a href="#">165TA3593</a>	
	250	96	62 mm 64 mm	114 mm 125 mm	2 connections. With blowout magnets on the left.	<a href="#">165TA3605</a>	
	250	96	62 mm 64 mm	125 mm 135 mm	2 connections.	<a href="#">165TA3567</a>	
	250	96	62 mm 101 mm	141 mm 152 mm	2 connections.	<a href="#">165TA3599</a>	
	250	96	63 mm 65 mm	111 mm 123 mm	2 connections.	<a href="#">165TA3560</a>	
	250	96	64 mm 64 mm	114 mm 123 mm	2 connections.	<a href="#">165TA3558</a>	
	250	48	62 mm 64 mm	135 mm 145 mm	6 connections. Different contact spring assembly (higher contact pressure) + different polarity.	<a href="#">165TA3549</a>	

# EMERGENCY SWITCHES



Used on: Albright

ED250A Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250	48	62 mm 64 mm	135 mm 145 mm	6 connections. Different contact spring assembly + different polarity.	<a href="#">165TA3556</a>	<a href="#">107TA1103</a> 
	250	96	62 mm 64 mm	111 mm 122 mm	6 connections.	<a href="#">165TA3619</a>	<a href="#">165TA4728</a> 
	250	96	62 mm 64 mm	135 mm 145 mm	6 connections. Contacts are different from REF 165TA3606, without enclosed cover.	<a href="#">165TA3564</a>	<a href="#">165TA3819</a> 
	250	96	62 mm 64 mm	135 mm 145 mm	6 connections. Contacts are different from REF 165TA3564, without enclosed cover.	<a href="#">165TA3606</a>	<a href="#">107TA1103</a> 
	250	96	62 mm 64 mm	135 mm 145 mm	6 connections. With enclosed cover.	<a href="#">165TA3616</a>	<a href="#">165TA3819</a> 
	250	96	62 mm 82 mm	114 mm 125 mm	4 connections. With key, switch type: ED252, without enclosed cover.	<a href="#">107TA1105</a>	<a href="#">165TA5004</a>
	250	96	62 mm 82 mm	114 mm 125 mm	4 connections. Switch type: ED252, without enclosed cover, different spring than REF 115TA4626.	<a href="#">106TA1209</a>	<a href="#">165TA3830</a>
	250	96	62 mm 82 mm	114 mm 125 mm	4 connections. Switch type: ED252, without enclosed cover, different spring than REF 106TA1209.	<a href="#">115TA4626</a>	<a href="#">165TA3830</a>

# EMERGENCY SWITCHES

## EMERGENCY SWITCHES

Used on: Albright								
	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button	
<b>ED252</b> Double-pole	250	150	62 mm 82 mm	114 mm 125 mm	4 connections.	<a href="#">165TA3583</a>	<a href="#">165TA3830</a>	
<b>ED252-4</b> Double-pole	250	96	62 mm 82 mm	114 mm 125 mm	4 connections.	<a href="#">165TA3589</a>	<a href="#">107TA1103</a>	
<b>ED252A</b> Double-pole	250	96	62 mm 82 mm	135 mm 145 mm	8 connections.	<a href="#">139TA2626</a>	<a href="#">107TA1103</a>	
<b>ED252A</b> Double-pole	250	150	62 mm 82 mm	135 mm 146 mm	8 connections.	<a href="#">165TA3571</a>	<a href="#">107TA1103</a>	
<b>SD150A</b> Single-pole	125	24	61 mm 50 mm	144 mm 151 mm	8 connections.	<a href="#">139TA2640</a>	<a href="#">139TA2561</a>	
<b>SD150A</b> Single-pole	125	24	61 mm 50 mm	149 mm 155 mm	6 connections.	<a href="#">165TA3604</a>	<a href="#">165TA3821</a>	
<b>SD150A</b> Single-pole	125	24	61 mm 50 mm	150 mm 155 mm	6 connections. Standard hardware kit.	<a href="#">139TA2635</a>	<a href="#">165TA3821</a>	
<b>SD150A</b> Single-pole	125	24	61 mm 50 mm	150 mm 155 mm	6 connections. Special hardware kit.	<a href="#">165TA3598</a>	<a href="#">165TA3751</a>	

# EMERGENCY SWITCHES



Used on: Albright

SD150A Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125	24	61 mm 50 mm	150 mm 155 mm	6 connections. Standard contact pressure.	<a href="#">165TA3613</a>	
	125	24	61 mm 50 mm	150 mm 155 mm	6 connections. Higher contact pressure (better contact performance).	<a href="#">112TA5000</a>	
	125	24	61 mm 50 mm	150 mm 155 mm	6 connections. Same switch as REF 112TA5000 but screws are 20 mm long instead of 16 mm.	<a href="#">165TA3631</a>	
	125	24	61 mm 50 mm	155 mm 161 mm	8 connections.	<a href="#">107TA1108</a>	
	125	24	61 mm 50 mm	164 mm 171 mm	8 connections.	<a href="#">165TA3607</a>	
	150	24	61 mm 50 mm	149 mm 155 mm	2 connections.	<a href="#">165TA3569</a>	
	125	14	61 mm 50 mm	116 mm 116 mm	6 connections.	<a href="#">165TA3546</a>	
	200	24	59 mm 68 mm	145 mm 150 mm	8 connections.	<a href="#">165TA3600</a>	

# EMERGENCY SWITCHES

## EMERGENCY SWITCHES

Used on: Albright								
SD200A Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button	
	200	24	59 mm 74 mm	145 mm 150 mm	8 connections. Pre-fitted operating knob.	<a href="#">165TA3579</a>	<a href="#">165TA3823</a>	
	200	24	59 mm 74 mm	145 mm 150 mm	8 connections. Operating knob comes separately with a hardware kit.	<a href="#">165TA3624</a>	<a href="#">107TA1103</a>	
	200	24	59 mm 76 mm	163 mm 168 mm	11 connections.	<a href="#">165TA3557</a>	<a href="#">165TA5002</a>	
	200	24	59 mm 82 mm	163 mm 168 mm	11 connections.	<a href="#">165TA3544</a>	<a href="#">107TA1103</a>	
	200	24	59 mm 94 mm	147 mm 151 mm	8 connections.	<a href="#">165TA3596</a>	<a href="#">107TA1103</a>	
	250	24	62 mm 56 mm	168 mm 174 mm	4 connections.	<a href="#">139TA2647</a>	<a href="#">139TA2555</a>	
	250	48	62 mm 56 mm	168 mm 174 mm	4 connections.	<a href="#">165TA3537</a>	<a href="#">139TA2555</a>	
	250	24	62 mm 56 mm	136 mm 141 mm	6 connections. With textured contact tip.	<a href="#">165TA3555</a>		

# EMERGENCY SWITCHES



Used on: **Albright**

SD250A Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250	24	62 mm 56 mm	136 mm 141 mm	6 connections. Without textured contact tips.	<a href="#">139TA2649</a>	
	250	24	62 mm 56 mm	147 mm 153 mm	6 connections.	<a href="#">165TA3625</a>	
	250	24	62 mm 56 mm	168 mm 174 mm	6 connections. CO-rated coil.	<a href="#">165TA3610</a>	
	250	24	62 mm 56 mm	168 mm 174 mm	6 connections. INT-rated coil.	<a href="#">115TA4627</a>	
	250	24	62 mm 56 mm	168 mm 174 mm	6 connections. With dust plate.	<a href="#">165TA3566</a>	
	250	48	62 mm 56 mm	136 mm 141 mm	6 connections.	<a href="#">165TA3629</a>	
	250	48	62 mm 56 mm	168 mm 174 mm	6 connections.	<a href="#">139TA2650</a>	
	250	80	62 mm 56 mm	168 mm 174 mm	6 connections.	<a href="#">165TA3545</a>	

# EMERGENCY SWITCHES



Used on: **Albright**

Model Description	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
<b>SD250A</b> Single-pole	250	96	62 mm 56 mm	141 mm 152 mm	6 connections.	<a href="#">165TA3595</a>	<a href="#">139TA2555</a> 
<b>SD300A</b> Single-pole	300	24	61 mm 95 mm	172 mm 177 mm	11 connections.	<a href="#">165TA8451</a>	<a href="#">111TA1103</a> 
<b>SW155</b> Double-pole	200	96		155 mm 160 mm	4 connections.	<a href="#">165TA3559</a>	<a href="#">106TA1210</a> 
<b>SW159</b> Single-pole	200	48		156 mm 160 mm	2 connections.	<a href="#">106TA1207</a>	<a href="#">139TA2554</a> 
<b>SW203</b> Single-pole	250	120	72 mm 56 mm	185 mm 190 mm	2 connections.	<a href="#">165TA3552</a>	<a href="#">139TA2554</a> 

# EMERGENCY SWITCHES



Used on: Elektrosistem								
BDS200 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button	
	200		85 mm 49 mm	106 mm 116 mm	2 connections.	<a href="#">165TA8453</a>		
	200		85 mm 49 mm	146 mm 158 mm	5 connections.	<a href="#">165TA8452</a>		
	200		86 mm 49 mm	114 mm 124 mm	2 connections.	<a href="#">165TA8450</a>	<a href="#">165TA3829</a>	
	150	48	80 mm 34 mm	88 mm 95 mm	2 connections.	<a href="#">165TA3622</a>	<a href="#">139TA2556</a>	

# EMERGENCY SWITCHES



Used on: Hardellet

Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	150	48	46 mm 42 mm	95 mm 100 mm	2 connections.	<a href="#">106TA1220</a>	<a href="#">107TA1109</a> 
	150	48	46 mm 42 mm	95 mm 101 mm	2 connections.	<a href="#">165TA3608</a>	<a href="#">107TA1111</a> 
	150	48	46 mm 42 mm	100 mm 105 mm	2 connections.	<a href="#">107TA1112</a>	<a href="#">139TA2561</a> 
	150	48	62 mm 46 mm	77 mm 85 mm	2 connections.	<a href="#">165TA3618</a>	<a href="#">116TA5222</a> 
	150	48	62 mm 46 mm	95 mm 100 mm	2 connections.	<a href="#">106TA1219</a>	<a href="#">107TA1109</a> 

# EMERGENCY SWITCHES



Used on: Kissling

Series 24 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	100	80	65 mm 38 mm	113 mm 120 mm	2 connections. Diameter connection: 9 mm.	<a href="#">124TA1679</a>	<a href="#">112TA5001</a> 
	300	80	65 mm 38 mm	92 mm 92 mm	2 connections. Diameter connection: 9 mm.	<a href="#">139TA2684</a>	<a href="#">165TA8455</a> 
	300	80	65 mm 38 mm	112 mm 122 mm	2 connections. Diameter connection: 9 mm.	<a href="#">165TA8445</a>	<a href="#">111TA3904</a> 

# EMERGENCY SWITCHES

## EMERGENCY SWITCHES

Used on: Rema								
	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button	
190 Single-pole	190		70 mm 42 mm	136 mm 148 mm	4 connections.	<a href="#">111TA3902</a>	<a href="#">139TA2564</a>	
DIN80A Single-pole	125		72 mm 69 mm	122 mm 135 mm	2 connections.	<a href="#">107TA1127</a>	<a href="#">139TA2564</a>	
Single-pole	190		70 mm 42 mm	120 mm 132 mm	4 connections.	<a href="#">116TA5384</a>	<a href="#">139TA2564</a>	
Single-pole	300	48	75 mm 38 mm	103 mm 115 mm	2 connections.	<a href="#">165TA8447</a>	<a href="#">139TA2559</a>	
Single-pole	300		75 mm 38 mm	103 mm 115 mm	2 connections.	<a href="#">165TA8446</a>	<a href="#">139TA2564</a>	
Single-pole	300		75 mm 38 mm	110 mm 120 mm	2 connections.	<a href="#">139TA2695</a>	<a href="#">139TA2564</a>	
Single-pole	350	220	47 mm 75 mm	111 mm 124 mm	2 connections.	<a href="#">165TA3548</a>	<a href="#">165TA5005</a>	

# EMERGENCY SWITCHES

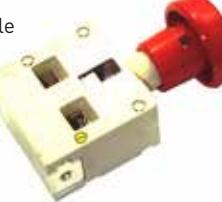


Used on: Schaltbau

C130/180 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	140	24	89 mm 75 mm	177 mm 184 mm	7 connections.	<a href="#">165TA3609</a>	<a href="#">139TA2562</a> 
C130/250 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	120	48	125 mm 88 mm	155 mm 163 mm	9 connections.	<a href="#">139TA2700</a>	<a href="#">139TA2561</a> 
S132 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125	48	70 mm 32 mm	109 mm 121 mm	2 connections.	<a href="#">165TA3623</a>	<a href="#">106TA1232</a> 
S132 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125	48	70 mm 32 mm	119 mm 131 mm	2 connections.	<a href="#">165TA3570</a>	<a href="#">111TA3899</a> 
S132 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125		70 mm 32 mm	79 mm 91 mm	2 connections. With blowout magnets.	<a href="#">107TA1117</a>	<a href="#">106TA1206</a> 
S132 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125		70 mm 32 mm	79 mm 91 mm	2 connections. Without blowout magnets.	<a href="#">107TA1118</a>	<a href="#">139TA2564</a> 
S132 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	125		70 mm 32 mm	111 mm 123 mm	2 connections.	<a href="#">139TA5972</a>	<a href="#">139TA2561</a> 
S134 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	250		70 mm 42 mm	95 mm 107 mm	2 connections.	<a href="#">106TA1233</a>	<a href="#">139TA2561</a> 

# EMERGENCY SWITCHES

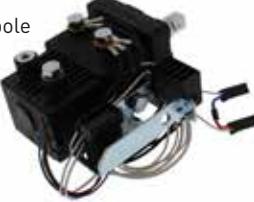
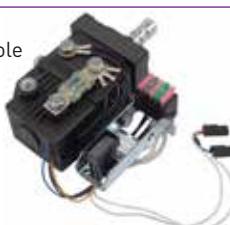
## EMERGENCY SWITCHES

Used on: Schaltbau								
S134 Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button	
	250		70 mm 42 mm	126 mm 139 mm	2 connections.	<a href="#">165TA8443</a>	<a href="#">106TA1232</a> 	
	250		70 mm 42 mm	132 mm 145 mm	2 connections.	<a href="#">165TA8449</a>	<a href="#">139TA2564</a> 	
	250		70 mm 42 mm	177 mm 189 mm	2 connections.	<a href="#">165TA3581</a>	<a href="#">139TA2565</a> 	
	250		70 mm 55 mm	95 mm 107 mm	2 connections.	<a href="#">165TA8444</a>	<a href="#">139TA2561</a> 	
	250		70 mm 63 mm	132 mm 145 mm	2 connections.	<a href="#">165TA8448</a>		
	250		70 mm 87 mm	132 mm 145 mm	2 connections.	<a href="#">105TA4853</a>	<a href="#">139TA2564</a> 	
	250		70 mm 97 mm	132 mm 145 mm	2 connections.	<a href="#">165TA3572</a>		
	250		70 mm 97 mm	132 mm 145 mm	5 connections.	<a href="#">139TA2711</a>	<a href="#">139TA2564</a> 	

# EMERGENCY SWITCHES



Used on: Schaltbau

Single-pole	Current A	Max voltage V	Max length - front side - lateral side	Total height - in OFF pos - in ON pos	Remark	REF of complete switch	REF button
	60	36	73 mm 32 mm	77 mm 84 mm	2 connections.	<a href="#">165TA3575</a>	<a href="#">165TA3750</a> 
	200	24	153 mm 83 mm	170 mm 177 mm	12 connections.	<a href="#">165TA3580</a>	<a href="#">165TA3828</a> 
	200	24	153 mm 83 mm	170 mm 177 mm	12 connections.	<a href="#">165TA3539</a>	<a href="#">165TA3828</a> 
	200	24	153 mm 84 mm	169 mm 176 mm	12 connections.	<a href="#">165TA3563</a>	<a href="#">165TA3828</a> 
	250	80	126 mm 89 mm	154 mm 162 mm	9 connections.	<a href="#">165TA3562</a>	<a href="#">139TA2561</a> 

# EMERGENCY SWITCHES



EMERGENCY SWITCHES

## NOTES

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# MISCELLANEOUS



## SWITCHES

As you can see on the following pages, we supply more than just micro-, limit, battery, rocker, steering column, emergency and toggle switches.

If you need more info about our miscellaneous switches or want to place an order, please contact your sales advisor.



## PULL SWITCHES



# MISCELLANEOUS



MISCELLANEOUS

## FOOT SWITCHES



## PUSH SWITCHES



# MISCELLANEOUS

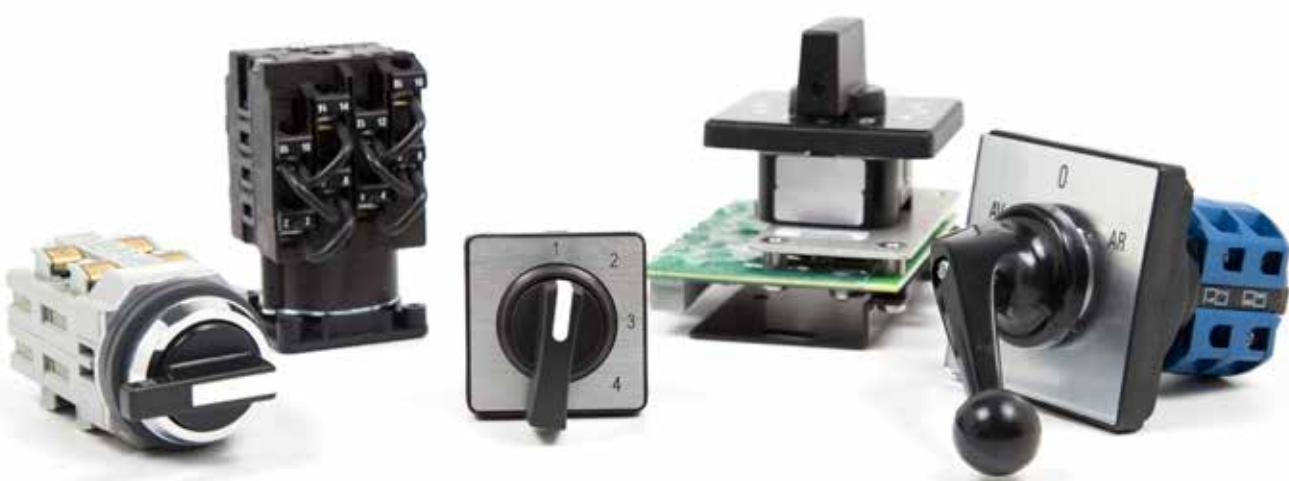


MISCELLANEOUS

## ROTARY SWITCHES



## CAM SWITCHES





# WORKSHOP & WAREHOUSE SUPPLIES AND PPE



## CRIMPING PLIERS



- Black lacquered pliers
- Handles with multi-component grips
- Special steel, high-strength
- Length: 240 mm
- Crimping capacity: 0,75 - 6 mm<sup>2</sup>
- For cutting cables, stripping wire and crimping insulated and non-insulated terminals, connectors and plug-type connectors
- With threaded holes for cutting copper and brass screws threaded M2,6 / M3 / M3,5 / M4 and M5
- Bolted joint for higher stability and even movement



[REF 142TA1999](#)

## MAINS TESTING SCREWDRIVER



- Slotted screwdriver
- 150-250 V
- Ø: 0,5 - 3,5 mm
- Length: 100 mm, 190 mm with handle

[REF 127TA8282](#)

## INSULATION TAPE



- Contains 10 rolls of adhesive PVC insulation tape
- Length: 10 m
- Width: 19 mm

[REF 107TA7668](#) – Black  
[REF 106TA9772](#) – Red  
[REF 106TA9773](#) – Blue  
[REF 106TA9768](#) – Yellow  
[REF 106TA9769](#) – White



- Set of 10 insulation tape rolls in different colours
- Length: 10 m
- Width: 19 mm

[REF 106TA9775](#) – Mixed colours



## INSULATING AND SEALING WRAP



**LOCTITE®**

- Seals immediately
- Can stretch to 3 times its original length
- Withstands extreme conditions: UV-resistant, resistant to salt water, fuels and acids
- Applicable under water
- Non-sticky, self-fusing multipurpose wrap
- Silicone-based
- Width: 2,5 cm
- Length: 4,27 m
- Operating temperature: -54 °C up to +260 °C

**REF 165TA8501** – Red

**REF 165TA8502** – Black

## 3-PIECE STEP DRILL SET



**RUKO**

- Quiet running and high cutting performance spiral fluted step drills
- Ø: 4-12, 4-20, 4-30 mm
- Size no.: 0/9, 1, 2
- Material: HSS
- Right-hand cut
- In steel case
- Optimised chip flow: protection of the cutting edges and reduction of built-up edges and cold weld marks
- The cone makes it easier to withdraw the tool from the material

**REF 143TA3171**

## 44-PIECE THREAD-CUTTING TOOL



**RUKO**

### Contains:

- Hand tap set containing 3 pieces of following sizes (DIN 352): M3 - M4 - M5 - M6 - M8 - M10 - M12
- 7 twist drills (DIN 338 - type N) with diameter: 2,5 - 3,3 - 4,2 - 5,0 - 6,8 - 8,5 - 10,2 mm
- 7 dies (DIN EN 22568) in sizes: M3 - M4 - M5 - M6 - M8 - M10 - M12
- 5 die stocks (DIN 225) in sizes 20,0 x 5,0 mm - 20,0 x 7,0 mm - 25,0 x 9,0 mm - 30,0 x 11,0 mm - 38,0 x 14,0 mm
- 2 tap wrenches (DIN 1814): size 1 and 2
- 1 screwdriver
- 1 screw-pitch gauge
- Material: HSS
- Right-hand cut
- In steel case

**REF 142TA7892**



## SOLDERING WIRE



- Material: tin-lead alloy
- Diameter: 2 mm
- Weight: 1 kg

[REF 107TA7578](#)

## SOLDERING IRON



- Pointed soldering bolt
- Power: 40 W
- Voltage: 230 V
- Length of the cable: 1200 mm
- European plug, type C contour plug

[REF 145TA8749](#)

## HEAT GUN



Pos 1: 2402 l/min: 300 °C  
Pos 2: 4502 l/min: 500 °C

- Power: 1600 W
- Voltage: 230 V
- Can be used with gun placed vertically on the worktop
- European plug, type C contour plug

[REF 127TA9779](#)

## ELECTRONIC PROTECTION SEALANT - CALSIL PASTE T30 - SILICONE PASTE



- Electronic protection sealant
- Contains zinc oxide as filler
- Production of thermal seals for gauges and sensors
- Good consistency from -50 °C to +300 °C
- Good thermal conductivity properties
- Good thermal dissipation
- Chemically inert
- Good dielectric properties
- Contents: 200 g

[REF 106TA1493](#)



## CONTACT CLEANER



Residue-free contact cleaner for use on PCBs and electronic equipment

- Contents: 500 ml
- NSF: K2 - Reg n° 140234
- Non-conductive and non-corrosive
- Fast-drying
- Leaves no residue

[REF 163TA7890](#)

## CONTACT CLEANER



High-quality spray designed to clean electrical contacts such as switches, batteries, terminals, printed circuit board switches and multiple sockets

- Contents: 400 ml
- Non-conductive and non-corrosive
- High dissolving properties
- Leaves no residue
- Excellent price/quality ratio

[REF 107TA1815](#)

## 2-26 ELECTRO



Maintenance and protection spray for all electrical equipment

- Contents: 500 ml
- Displaces and seals out water and moisture
- Test on sensitive or stressed materials before use
- Prevents corrosion and oxidation
- Penetrates and lubricates
- Repels humidity after water damage

[REF 143TA6919](#)

## LOCTITE 243 - THREADLOCKING ADHESIVE



Medium-strength threadlocker

- Max thread size M36
- Operating temperature: -55 °C up to +180 °C
- NSF: P1 - Reg n° 123000
- General purpose
- Suitable for all metal threaded assemblies
- Prevents loosening due to vibration
- Permits disassembly with hand tools

[REF 165TA1270](#) – 10 ml

[REF 107TA8523](#) – 50 ml





## FAST-CURING TWO-COMPONENT ADHESIVE

**LOCTITE®**



- Temperature resistance: from -40 °C to +100 °C
- Contents: 11 g
- Gap fill: up to 5 mm
- Processing time: 3 - 4 minutes
- Conditions: perfect in humid conditions: temperature and moisture-resistant and resistant to UV radiation and chemicals
- Gel-based: non-drip formula allowing for vertical and overhead application
- Applications: excellent bonding of all common substrates: metals, most plastics, rubber, wood, paper ...
- Amount of nozzles included: 4

**REF 165TA3768** – Loctite HY 4070

## FAST-CURING TWO-COMPONENT ADHESIVE

**LOCTITE®**



- Temperature resistance: from -20 °C to +80 °C
- Contents: 11 g
- Gap fill: up to 5 mm
- Processing time: 90 seconds
- Conditions: for indoor use: perfect for all quick repairs of broken plastic parts and all types of emergency repairs
- Gel-based: non-drip formula allowing for vertical and overhead application
- Applications: excellent bonding of all common substrates: metals, most plastics, rubber, wood, paper ...
- Amount of nozzles included: 7

**REF 165TA1300** – Loctite 3090



## REPLACEMENT NOZZLES



**LOCTITE®**

- Bag with 10 mixing tips for Loctite 3090 and Loctite HY 4070
- Provides precise and clean application

**REF [165TA2350](#)**

## BLACK WORK EASY GLOVES



**Honeywell**

Suitable for precision work and fine handling in a dry environment

### Applications:

- Assembly and electrical components (semi-conductors, microprocessors)
- Separation of small items (household appliances, automotive industry, nuts and bolts)
- Electronics

### Advantages:

- Exceptional dexterity and breathability
- PU-coated glove without silicone on palm and fingertips ensures good grip
- Offers maximum comfort and added sturdiness
- Good abrasion and tear resistance
- Tight knit: limits the penetration of dirt and offers a good touch

### Standard:

- Cat II
- EN 420
- EN 388:3121



**REF [143TA6973](#)** – Size: 6

**REF [143TA6974](#)** – Size: 7

**REF [143TA6975](#)** – Size: 8

**REF [143TA6976](#)** – Size: 9

**REF [143TA6977](#)** – Size: 10

**REF [143TA6978](#)** – Size: 11



## NOTES

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# TVH PARTS HOLDING AROUND THE WORLD



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Richlands [Brisbane, Queensland] ·  
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Wetherill Park [Sydney, New South Wales] ·  
Wingfield [Adelaide, South Australia]

**BELGIUM**  
TVH PARTS HOLDING NV  
Waregem  
TVH PARTS NV  
Waregem  
BEPCO PARTS SA  
Villers-le-Bouillet - Hermaillé-sous-Huy

**BRASIL**  
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Vinhedo

**BULGARIA**  
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Watrrels  
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Soest  
BEPCO DEUTSCHLAND GMBH  
Soest  
GLASSINTER GMBH  
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Marano Ticino [Novara]  
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TVH MALAYSIA SDN BHD  
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TVH PARTS MEXICO, S. DE R.L. DE C.V.  
Cuautitlán Izcalli [Mexico City]

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BEPCO NEDERLAND BV  
Heeswijk-Dinther

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TVH NEW ZEALAND LTD  
Christchurch - East Tamaki [Auckland]

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Myślenice  
AGRO-JAN DYSTRYBUJCA SP. Z O.O.  
Myślenice  
AGRO-JAN PRODUKCJA SP. Z O.O.  
Myślenice

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Sharjah

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Country  
RENTACLAMP (COVENTRY) LIMITED  
Country  
BEPCO UK LIMITED  
Hartlebury

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Harrisburg [Pennsylvania] - Miami [Florida] - Miramar [Florida] ·  
Olathe [Kansas] - Portland [Oregon] - Shreveport [Louisiana]  
C-TECH INDUSTRIES LLC  
West Chester Township [Ohio]  
SUPERIOR SIGNALS, INC  
Olathe [Kansas]  
FLIGHT SYSTEMS INDUSTRIAL PRODUCTS  
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