

## Limit Switches

# Made in Germany

## ASA Schalttechnik – we drive the industry

Are you looking for reasonably priced technology that works smoothly, that fully meets your requirements and that offers a long service life with constant high performance as you would expect? And, on top of this, a range of products that is convincing in terms of both breadth and depth? Then we have the good news that you have been waiting for: At ASA Schalttechnik we do everything imaginable so that your wishes become reality.

Our team consists of doers, creative minds and service experts: Experienced professionals who live and breathe quality, who draw on unlimited resources on 2.000 m<sup>2</sup> production space, are dedicated to detail and who get to the heart of things when it comes to control and switching technology. Altogether, refreshingly pragmatic, truly German, straightforward and good.

## We love challenges

Our all-round competence is reflected in our tried and tested standard products that can be delivered at short notice ex-factory. But also in our individual custom-made solutions manufactured in small volumes. Consequently, we are a competent partner and, when the need arises, a flexible manufacturer of niche products, developed and designed in cooperation with our customers.

ASA Schalttechnik proudly stands for this philosophy and delivers every time. As a family-owned enterprise, our products offer quality “Made in Germany”.

## Our product range

Mechanical, magnetic and electronic switchgear for machinery and plant engineering – control and automation technology, fire protection technology, medical technology and much more:

- Limit Switches
- Switchgear
- Foot Switches
- Safety Switches
- Medical switching devices
- Magnetic Switches
- Level Switches
- Special switching devices



## Quality is a continuous process

Or to put it another way, it's a never-ending process – an infinite cycle of testing, analysing, understanding, learning, optimising and documenting. That's life. Our suppliers also support us with this process, as it's the only way to make quality management work. And we make sure to adhere to it: With staying power since 1975.

## Environmental protection is a point of honour

Save electricity, water and heating energy. Avoid waste and plan responsible use of raw materials in production. For our team, ecology is not just hype – it plays an important part in our day-to-day operations, also with regard to RoHS, REACH and recycling. Beneficial to nature, beneficial to us all.

## It's the team that makes the difference

ASA Schalttechnik: People who achieve – hands-on people who think for themselves and who inspire us with their energy, ideas and experience. Whether they work in our production department, in customer relations or in management, our committed staff does everything to achieve best prices, top-of-class products, best delivery times and excellent services. And that's a promise!



 **made**  
 **in**  
 **Germany**

# ASA limit switches

## ASA limit switches

Ranging from standard switchgear to special designs: ASA limit switches are used in all areas of machinery and plant engineering – especially control and automation technology. Extremely successfully where machine processes are queried, controlled, monitored and counted.

## Always the right switch

ASA limit switches are functional, precise, reliable and made from high-quality materials. We have the most suitable type depending on the type of current, the switching capacity, the actuator travel and the actuating force. Are atmospheric conditions or temperatures significant in the areas where limit switches are used? Thanks to our many different switch designs we can provide very specific solutions.



## Small and very good

ASA limit switches are small and compact. All switch components are arranged to save space – relatively high performance can be provided in small spaces.

- Many power stages and different switching systems.
- Gold-plated contacts or positive opening properties according to IEC/EN 60947-5-1 are available

Please also note the technical details on the following pages.

## Limit switch lines – overview:

### SK – SM – SDK – SDM

The **SK** line includes limiting sub-miniature switches with plastic actuators.

**SK** Plastic-encapsulated stackable individual limit switches, cable outlets on the side or bottom, 12 different plastic actuators, 7 different switch inserts with several power levels and switching systems, standard designs

The **SM** line includes limiting sub-miniature switches with metal actuators.

**SM** Plastic-encapsulated stackable individual limit switches, cable outlets on the side or bottom, 37 different metal actuators, 7 different switch inserts with several power levels and switching systems, standard designs

The **SDK** line includes dual limiting sub-miniature switches with plastic actuators.

**SDK** Plastic-encapsulated stackable dual limit switches, cable outlets on the side or bottom, 12 different plastic actuators, 3 different switch inserts with several power levels and switching systems, standard designs

The **SDM** line includes dual limiting sub-miniature switches with metal actuators.

**SDM** Plastic-encapsulated stackable dual limit switches, cable outlets on the side or bottom, 35 different metal actuators, 3 different switch inserts with several power levels and switching systems, standard designs

The individual product lines offered by ASA include a wide selection of other switch designs. Can't find a standard solution to match your individual requirements? We look forward to discussing your needs and providing customised special configurations.

# Sub-miniature switches SK, SM

## The limiting sub-miniature switches in the SK and SM lines

The **SK** line includes plastic-encapsulated, stackable miniature single limit switches with plastic actuators. This line is a consistent development of the popular **SM** line. The latter are plastic-encapsulated, stackable miniature single limit switches but with metal actuators.

These two lines are used in all areas of control and automation technology as well as in the energy and telecommunications sectors. With our large selection of actuators combined with the enormous choice of switch inserts, we can fulfil the requirements of all branches of industry.

These switches are characterised by their switching reliability, which explains why they are first choice – especially in rugged operating conditions. All the components together form precise, well-engineered limit switches that continue to open up new areas of application and ensure the operating safety of technical plants.



## Type key for SK and SM lines, standard designs

Example: **SM 10ZTR U**

<p><b>TYPE</b></p> <p><b>SK</b> Sub-miniature switch, single limit switch with plastic actuator</p> <p><b>SM</b> Sub-miniature switch, single limit switch with metal actuator</p>	<p><b>Positive opening</b></p> <p><b>Z</b> Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1</p>															
<p><b>Current capacity</b></p> <table border="1"> <tr><td>5</td><td>5</td><td>Ampere</td></tr> <tr><td>10</td><td>10</td><td>Ampere</td></tr> <tr><td>0.1</td><td>0.1</td><td>Ampere</td></tr> <tr><td>4</td><td>4</td><td>Ampere</td></tr> <tr><td>8</td><td>8</td><td>Ampere</td></tr> </table>	5	5	Ampere	10	10	Ampere	0.1	0.1	Ampere	4	4	Ampere	8	8	Ampere	<p><b>Cabling</b></p> <p><b>U</b> Cable outlet, bottom</p>
5	5	Ampere														
10	10	Ampere														
0.1	0.1	Ampere														
4	4	Ampere														
8	8	Ampere														
<p><b>Fastening</b></p> <p><b>Z</b> Central fastening attachment</p>	<p><b>Actuator design</b></p> <p><b>S</b> Plunger</p> <p><b>R</b> Roller</p> <p><b>90</b> Roller, 90° offset</p> <p><b>G</b> Slider</p> <p><b>K</b> Hinge roller</p> <p><b>D</b> Wire</p> <p><b>F</b> Spring</p> <p><b>Kl</b> Sphere, Ø 8 mm</p> <p><b>Kg</b> Sphere, Ø 10 mm</p>															
<p><b>Actuator</b></p> <p><b>S</b> Plunger</p> <p><b>T</b> Telescopic plunger</p> <p><b>K</b> Small lever, 5 mm wide</p> <p><b>G</b> Large lever, 8 mm wide</p> <p><b>D</b> Wire</p> <p><b>F</b> Spring probe</p>	<p><b>Length of actuator</b></p> <p><b>1 to 200 mm</b></p>															

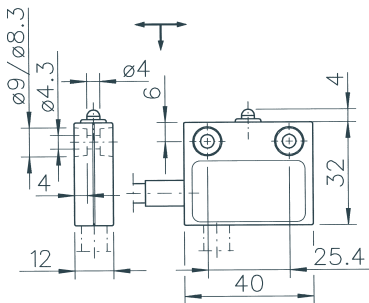
## Technical specifications for sub-miniature switch SK, SM lines

<b>Regulations:</b>	ASA sub-miniature switches are manufactured in accordance with the applicable regulations IEC/EN 60204 and IEC/EN 60947-5-1
<b>Design:</b>	Plastic-encapsulated stackable single limit switch, sub-miniature switch design, fastening with screws M4, DIN 85 or central fastening attachment
<b>Housing:</b>	Thermoplastic PA 6.6 glass fibre-reinforced
<b>Connection:</b>	PVC control cable, structure corresponds with H05VV-F, grey RAL 7001, 3 x 0.5 mm <sup>2</sup> or 4 x 0.5 mm <sup>2</sup> , length 1m, longer or shorter cables as special designs, special cables on request
<b>Cable inlet:</b>	side or bottom with protective rubber sleeve
<b>Protection class:</b>	IP 65 according to IEC/EN 60529, other protection classes on request
<b>Plunger:</b>	Thermoplastic PA 6.6 glass fibre reinforced, stainless steel, nickel-plated brass (depending on actuator design)
<b>Sleeve:</b>	Neoprene oil-resistant
<b>Lever actuator:</b>	nickel-plated, cold-rolled steel, stainless steel on request
<b>Spring actuator:</b>	Stainless steel
<b>Roller:</b>	Thermoplastic PA 6.6 glass fibre reinforced, sintered stainless steel, nickel-plated brass (depending on actuator design)
<b>Actuator travel:</b>	see type table
<b>Actuating force:</b>	see type table
<b>Installation position:</b>	optional
<b>Switching cycles:</b>	min. 10 million
<b>Working temperature:</b>	-20 °C to +80 °C

Switch inserts	...01... / ...5... / ...10...	...4... / ...8...	...10...Z / ...10...ZO  
Switch type:	1 changeover contact switch	1 NC contact/1 NO contact	1 NC contact/1 NO contact / 2 NC contacts
Switching system:	Snap-action mechanism	Snap-action mechanism	Slow-action mechanism
Contact material:	Gold/Silver/Silver	Gold/Silver	Silver/Silver
Voltage:	max. 250 VAC, 40-60Hz	max. 250 VAC, 40-60Hz	max. 250 VAC, 40-60Hz
Current capacity:	max. 0.1A / 5A / 10A	max. 4A / 8A	max. 10A
Approvals:	VDE, UL, CSA	UL, CSA	

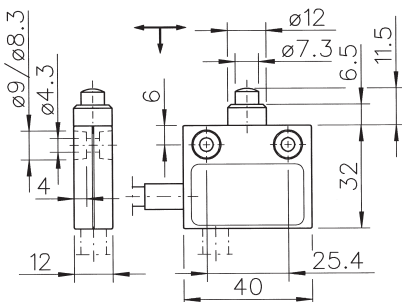
# Sub-miniature switch SK

## Type table for sub-miniature switch SK, standard selection



Approaching angle: max 20°, approaching speed: max 1 m/s

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 S	8022 0180	1 changeover contact	5		1.00	side
SK 5 S U	8022 0181	1 changeover contact	5		1.00	bottom
SK 10 S	8022 0182	1 changeover contact	10		2.00	side
SK 10 S U	8022 0183	1 changeover contact	10		2.00	bottom
SK 01 S	8022 0184	1 changeover contact	0.1		1.60	side
SK 01 S U	8022 0185	1 changeover contact	0.1		1.60	bottom
SK 4 S	8022 0186	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 S U	8022 0187	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 S	8022 0188	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 S U	8022 0189	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SK 10 S Z	8022 0190	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 S U Z	8022 0191	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 S ZO	8022 0568	2 NC contacts	10		3.30	side
SK 10 S U ZO	8022 0569	2 NC contacts	10		3.30	bottom

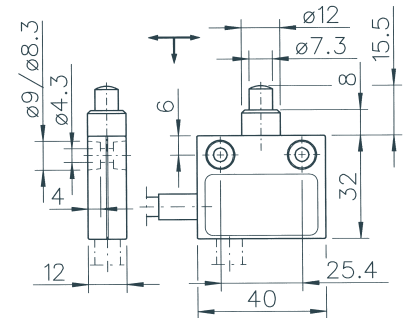


Approaching angle: max 20°, approaching speed: max 1 m/s

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 T17S	8022 0200	1 changeover contact	5		1.00	side
SK 5 T17S U	8022 0201	1 changeover contact	5		1.00	bottom
SK 10 T17S	8022 0202	1 changeover contact	10		2.00	side
SK 10 T17S U	8022 0203	1 changeover contact	10		2.00	bottom
SK 01 T17S	8022 0204	1 changeover contact	0.1		1.60	side
SK 01 T17S U	8022 0205	1 changeover contact	0.1		1.60	bottom
SK 4 T17S	8022 0206	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 T17S U	8022 0207	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 T17S	8022 0208	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 T17S U	8022 0209	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SK 10 T17S Z	8022 0210	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 T17S UZ	8022 0211	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 T17S ZO	8022 0570	2 NC contacts	10		3.30	side
SK 10 T17S UZO	8022 0571	2 NC contacts	10		3.30	bottom

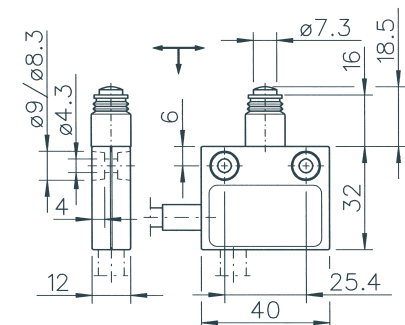


Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 T21S	8022 0220	1 changeover contact	5		1.00	side
SK 5 T21S U	8022 0221	1 changeover contact	5		1.00	bottom
SK 10 T21S	8022 0222	1 changeover contact	10		2.00	side
SK 10 T21S U	8022 0223	1 changeover contact	10		2.00	bottom
SK 01 T21S	8022 0224	1 changeover contact	0.1		1.60	side
SK 01 T21S U	8022 0225	1 changeover contact	0.1		1.60	bottom
SK 4 T21S	8022 0226	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 T21S U	8022 0227	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 T21S	8022 0228	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 T21S U	8022 0229	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SK 10 T21S Z	8022 0230	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 T21S UZ	8022 0231	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 T21S ZO	8022 0572	2 NC contacts	10		3.30	side
SK 10 T21S UZO	8022 0573	2 NC contacts	10		3.30	bottom



Approaching angle: max 20°, approaching speed: max 1 m/s

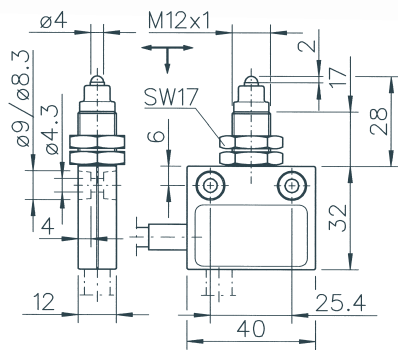
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 T24S	8022 0240	1 changeover contact	5		1.00	side
SK 5 T24S U	8022 0241	1 changeover contact	5		1.00	bottom
SK 10 T24S	8022 0242	1 changeover contact	10		2.00	side
SK 10 T24S U	8022 0243	1 changeover contact	10		2.00	bottom
SK 01 T24S	8022 0244	1 changeover contact	0.1		1.60	side
SK 01 T24S U	8022 0245	1 changeover contact	0.1		1.60	bottom
SK 4 T24S	8022 0246	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 T24S U	8022 0247	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 T24S	8022 0248	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 T24S U	8022 0249	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SK 10 T24S Z	8022 0250	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 T24S UZ	8022 0251	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 T24S Z	8022 0574	2 NC contacts	10		3.30	side
SK 10 T24S UZ	8022 0575	2 NC contacts	10		3.30	bottom



Approaching angle: max 20°, approaching speed: max 1 m/s

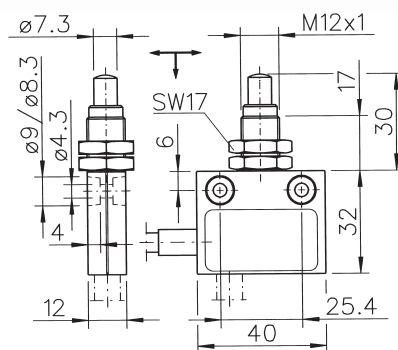
# Sub-miniature switch SK

## Type table for sub-miniature switch SK, standard selection



Approaching angle: max 20°, approaching speed: max 1 m/s

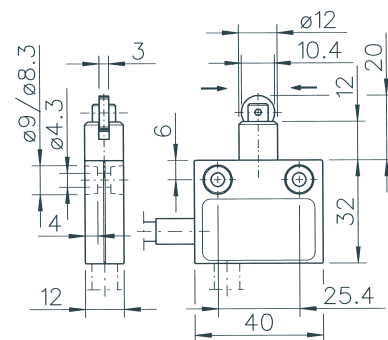
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 ZS	8022 0260	1 changeover contact	5		1.00	side
SK 5 ZS U	8022 0261	1 changeover contact	5		1.00	bottom
SK 10 ZS	8022 0262	1 changeover contact	10		2.00	side
SK 10 ZS U	8022 0263	1 changeover contact	10		2.00	bottom
SK 01 ZS	8022 0264	1 changeover contact	0.1		1.60	side
SK 01 ZS U	8022 0265	1 changeover contact	0.1		1.60	bottom
SK 4 ZS	8022 0266	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 ZS U	8022 0267	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 ZS	8022 0268	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 ZS U	8022 0269	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SK 10 ZS Z	8022 0270	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 ZS UZ	8022 0271	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 ZS ZO	8022 0576	2 NC contacts	10		3.30	side
SK 10 ZS UZO	8022 0577	2 NC contacts	10		3.30	bottom



Approaching angle: max 20°, approaching speed: max 1 m/s

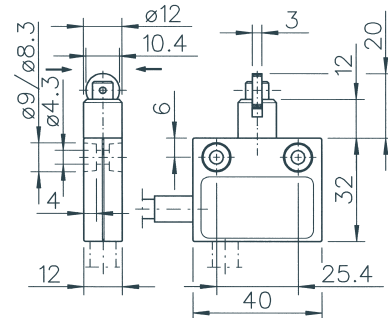
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 ZTS	8022 0280	1 changeover contact	5		1.00	side
SK 5 ZTS U	8022 0281	1 changeover contact	5		1.00	bottom
SK 10 ZTS	8022 0282	1 changeover contact	10		2.00	side
SK 10 ZTS U	8022 0283	1 changeover contact	10		2.00	bottom
SK 01 ZTS	8022 0284	1 changeover contact	0.1		1.60	side
SK 01 ZTS U	8022 0285	1 changeover contact	0.1		1.60	bottom
SK 4 ZTS	8022 0286	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 ZTS U	8022 0287	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 ZTS	8022 0288	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 ZTS U	8022 0289	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SK 10 ZTS Z	8022 0290	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 ZTS UZ	8022 0291	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 ZTS Z	8022 0578	2 NC contacts	10		3.30	side
SK 10 ZTS UZ	8022 0579	2 NC contacts	10		3.30	bottom

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 T26R	8022 0300	1 changeover contact	5		1.00	side
SK 5 T26R U	8022 0301	1 changeover contact	5		1.00	bottom
SK 10 T26R	8022 0302	1 changeover contact	10		2.00	side
SK 10 T26R U	8022 0303	1 changeover contact	10		2.00	bottom
SK 01 T26R	8022 0304	1 changeover contact	0.1		1.60	side
SK 01 T26R U	8022 0305	1 changeover contact	0.1		1.60	bottom
SK 4 T26R	8022 0306	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 T26R U	8022 0307	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 T26R	8022 0308	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 T26R U	8022 0309	1 NC contact/ 1 NO contact	8		2.20	bottom
<b>Ⓟ ⤴ Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1</b>						
SK 10 T26R Z	8022 0310	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 T26R U Z	8022 0311	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 T26R Z	8022 0580	2 NC contacts	10		3.30	side
SK 10 T26R U Z	8022 0581	2 NC contacts	10		3.30	bottom



Approaching angle: max 20°, approaching speed: max 1 m/s

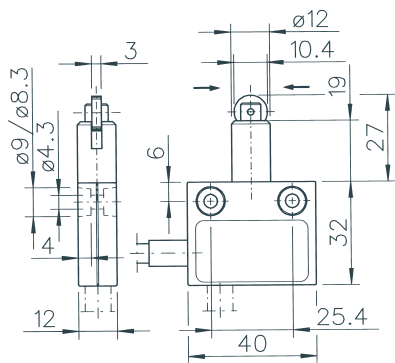
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 T26R90	8022 0320	1 changeover contact	5		1.00	side
SK 5 T26R90 U	8022 0321	1 changeover contact	5		1.00	bottom
SK 10 T26R90	8022 0322	1 changeover contact	10		2.00	side
SK 10 T26R90 U	8022 0323	1 changeover contact	10		2.00	bottom
SK 01T26R90	8022 0324	1 changeover contact	0.1		1.60	side
SK 01 T26R90 U	8022 0325	1 changeover contact	0.1		1.60	bottom
SK 4 T26R90	8022 0326	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 T26R90 U	8022 0327	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 T26R90	8022 0328	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 T26R90 U	8022 0329	1 NC contact/ 1 NO contact	8		2.20	bottom
<b>Ⓟ ⤴ Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1</b>						
SK 10 T26R90 Z	8022 0330	1 NC contact/ 1 NO contact	10		3.30	side
SK 10T26R90 UZ	8022 0331	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 T26R90 Z	8022 0582	2 NC contacts	10		3.30	side
SK 10T26R90 UZ	8022 0583	2 NC contacts	10		3.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

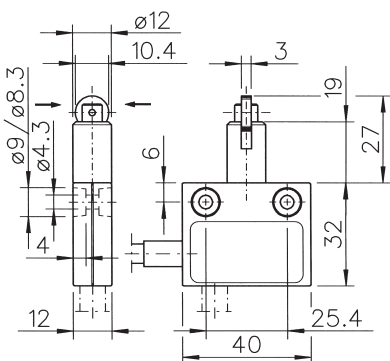
# Sub-miniature switch SK

## Type table for sub-miniature switch SK, standard selection



Approaching angle: max 30°, approaching speed: max 3 m/s

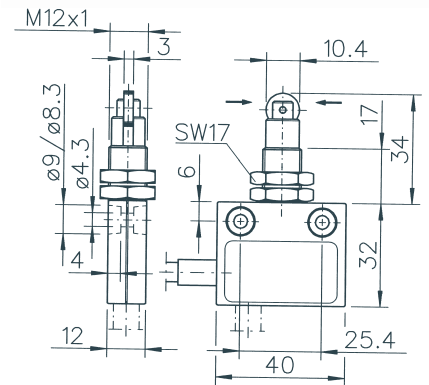
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 T33R	8022 0340	1 changeover contact	5		1.00	side
SK 5 T33R U	8022 0341	1 changeover contact	5		1.00	bottom
SK 10 T33R	8022 0342	1 changeover contact	10		2.00	side
SK 10 T33R U	8022 0343	1 changeover contact	10		2.00	bottom
SK 01 T33R	8022 0344	1 changeover contact	0.1		1.60	side
SK 01 T33R U	8022 0345	1 changeover contact	0.1		1.60	bottom
SK 4 T33R	8022 0346	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 T33R U	8022 0347	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 T33R	8022 0348	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 T33R U	8022 0349	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SK 10 T33R Z	8022 0350	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 T33R U Z	8022 0351	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 T33R ZO	8022 0584	2 NC contacts	10		3.30	side
SK 10T33R UZO	8022 0585	2 NC contacts	10		3.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

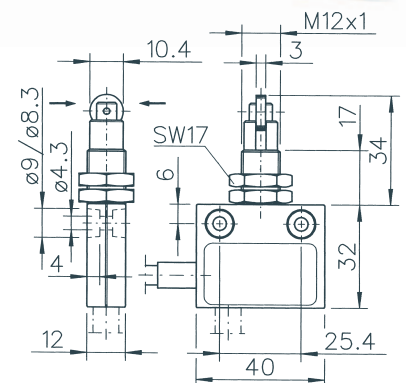
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 T33R90	8022 0360	1 changeover contact	5		1.00	side
SK 5 T33R90 U	8022 0361	1 changeover contact	5		1.00	bottom
SK 10 T33R90 S	8022 0362	1 changeover contact	10		2.00	side
SK 10 T33R90 U	8022 0363	1 changeover contact	10		2.00	bottom
SK 01 T33R90	8022 0364	1 changeover contact	0.1		1.60	side
SK 01 T33R90 U	8022 0365	1 changeover contact	0.1		1.60	bottom
SK 4 T33R90	8022 0366	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 T33R90 U	8022 0367	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 T33R90	8022 0368	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 T33R90 U	8022 0369	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SK 10 T33R90 Z	8022 0370	1 NC contact/ 1 NO contact	10		3.30	side
SK 10T33R90 UZ	8022 0371	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 T33R90 ZO	8022 0586	2 NC contacts	10		3.30	side
SK 10T33R90 UZO	8022 0587	2 NC contacts	10		3.30	bottom

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 ZTR	8022 0380	1 changeover contact	5		1.00	side
SK 5 ZTR U	8022 0381	1 changeover contact	5		1.00	bottom
SK 10 ZTR	8022 0382	1 changeover contact	10		2.00	side
SK 10 ZTR U	8022 0383	1 changeover contact	10		2.00	bottom
SK 01 ZTR	8022 0384	1 changeover contact	0.1		1.60	side
SK 01 ZTR U	8022 0385	1 changeover contact	0.1		1.60	bottom
SK 4 ZTR	8022 0386	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 ZTR U	8022 0387	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 ZTR	8022 0388	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 ZTR U	8022 0389	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SK 10 ZTR Z	8022 0390	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 ZTR U Z	8022 0391	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 ZTR ZO	8022 0588	2 NC contacts	10		3.30	side
SK 10 ZTR U ZO	8022 0589	2 NC contacts	10		3.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

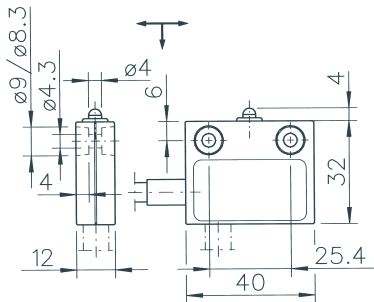
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SK 5 ZTR90	8022 0400	1 changeover contact	5		1.00	side
SK 5 ZTR90 U	8022 0401	1 changeover contact	5		1.00	bottom
SK 10 ZTR90	8022 0402	1 changeover contact	10		2.00	side
SK 10 ZTR90 U	8022 0403	1 changeover contact	10		2.00	bottom
SK 01 ZTR90	8022 0404	1 changeover contact	0.1		1.60	side
SK 01 ZTR90 U	8022 0405	1 changeover contact	0.1		1.60	bottom
SK 4 ZTR90	8022 0406	1 NC contact/ 1 NO contact	4		2.00	side
SK 4 ZTR90 U	8022 0407	1 NC contact/ 1 NO contact	4		2.00	bottom
SK 8 ZTR90	8022 0408	1 NC contact/ 1 NO contact	8		2.20	side
SK 8 ZTR90 U	8022 0409	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SK 10 ZTR90 Z	8022 0410	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 ZTR90 U Z	8022 0411	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SK 10 ZTR90 ZO	8022 0590	2 NC contacts	10		3.30	side
SK 10 ZTR90 UZO	8022 0591	2 NC contacts	10		3.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

# Sub-miniature switch SM

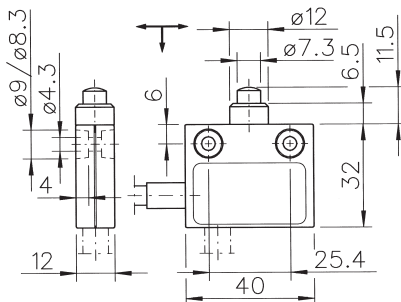
## Type table for sub-miniature switch SM, standard selection



Approaching angle: max 20°, approaching speed: max 1 m/s

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 S	8022 0000	1 changeover contact	5		1.00	side
SM 5 S U	8022 0001	1 changeover contact	5		1.00	bottom
SM 10 S	8022 0002	1 changeover contact	10		2.00	side
SM 10 S U	8022 0003	1 changeover contact	10		2.00	bottom
SM 01 S	8022 0172	1 changeover contact	0.1		1.60	side
SM 01 S U	8022 0173	1 changeover contact	0.1		1.60	bottom
SM 4 S	8022 0174	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 S U	8022 0175	1 NC contact/ 1 NO contact	4		2.00	bottom
SM 8 S	8022 0176	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 S U	8022 0177	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 S Z	8022 0178	1 NC contact/ 1 NO contact	10		3.30	side
SM 10 S U Z	8022 0179	1 NC contact/ 1 NO contact	10		3.30	bottom
SM 10 S ZO	8022 0592	2 NC contacts	10		3.30	side
SM 10 S U ZO	8022 0593	2 NC contacts	10		3.30	bottom

**NEW**

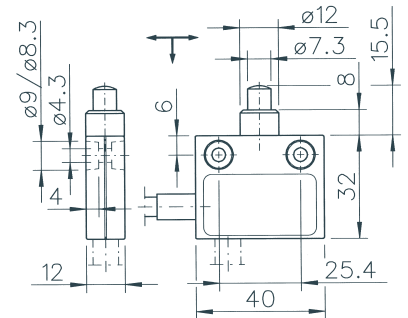


Approaching angle: max 20°, approaching speed: max 1 m/s

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 T17S	8022 0120	1 changeover contact	5		1.00	side
SM 5 T17S U	8022 0121	1 changeover contact	5		1.00	bottom
SM 10 T17S	8022 0122	1 changeover contact	10		2.00	side
SM 10 T17S U	8022 0123	1 changeover contact	10		2.00	bottom
SM 01 T17S	8022 0192	1 changeover contact	0.1		1.60	side
SM 01 T17S U	8022 0193	1 changeover contact	0.1		1.60	bottom
SM 4 T17S	8022 0194	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 T17S U	8022 0195	1 NC contact/ 1 NO contact	4		2.00	bottom
SM 8 T17S	8022 0196	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 T17S U	8022 0197	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 T17S Z	8022 0198	1 NC contact/ 1 NO contact	10		3.30	side
SM 10 T17S UZ	8022 0199	1 NC contact/ 1 NO contact	10		3.30	bottom
SM 10 T17S ZO	8022 0594	2 NC contacts	10		3.30	side
SM 10 T17S UZO	8022 0595	2 NC contacts	10		3.30	bottom

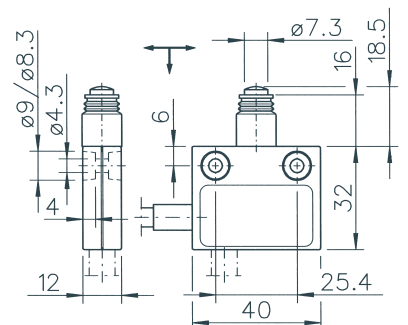
**NEW**

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 T21S	8022 0124	1 changeover contact	5		1.00	side
SM 5 T21S U	8022 0125		5		1.00	bottom
SM 10 T21S	8022 0126	1 changeover contact	10		2.00	side
SM 10 T21S U	8022 0127		10		2.00	bottom
SM 01 T21S	8022 0212	1 changeover contact	0.1		1.60	side
SM 01 T21S U	8022 0213		0.1		1.60	bottom
SM 4 T21S	8022 0214	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 T21S U	8022 0215		4		2.00	bottom
SM 8 T21S	8022 0216	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 T21S U	8022 0217		8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 T21S Z	8022 0218	1 NC contact/ 1 NO contact	10		3.30	side
SM 10T21SUZ	8022 0219		10		3.30	bottom
<b>NEW</b> SM 10 T21S ZO	8022 0596	2 NC contacts	10		3.30	side
SM 10T21SUZO	8022 0597		10		3.30	bottom



Approaching angle: max 20°, approaching speed: max 1 m/s

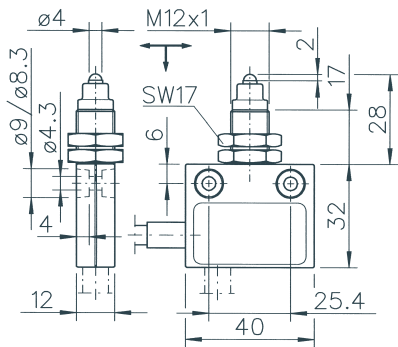
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 T24S	8022 0144	1 changeover contact	5		1.00	side
SM 5 T24S U	8022 0145		5		1.00	bottom
SM 10 T24S	8022 0146	1 changeover contact	10		2.00	side
SM 10 T24S U	8022 0147		10		2.00	bottom
SM 01 T24S	8022 0232	1 changeover contact	0.1		1.60	side
SM 01 T24S U	8022 0233		0.1		1.60	bottom
SM 4 T24S	8022 0234	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 T24S U	8022 0235		4		2.00	bottom
SM 8 T24S	8022 0236	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 T24S U	8022 0237		8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 T24S Z	8022 0238	1 NC contact/ 1 NO contact	10		3.30	side
SM 10T24SUZ	8022 0239		10		3.30	bottom
<b>NEW</b> SM 10 T24S ZO	8022 0598	2 NC contacts	10		3.30	side
SM 10T24SUZO	8022 0599		10		3.30	bottom



Approaching angle: max 20°, approaching speed: max 1 m/s

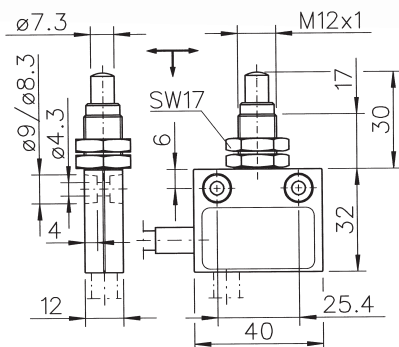
# Sub-miniature switch SM

## Type table for sub-miniature switch SM, standard selection



Approaching angle: max 20°, approaching speed: max 1 m/s

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 ZS	8022 0028	1 changeover contact	5		1.00	side
SM 5 ZS U	8022 0029	1 changeover contact	5		1.00	bottom
SM 10 ZS	8022 0030	1 changeover contact	10		2.00	side
SM 10 ZS U	8022 0031	1 changeover contact	10		2.00	bottom
SM 01 ZS	8022 0252	1 changeover contact	0.1		1.60	side
SM 01 ZS U	8022 0253	1 changeover contact	0.1		1.60	bottom
SM 4 ZS	8022 0254	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 ZS U	8022 0255	1 NC contact/ 1 NO contact	4		2.00	bottom
SM 8 ZS	8022 0256	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 ZS U	8022 0257	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 ZS Z	8022 0258	1 NC contact/ 1 NO contact	10		3.30	side
SM 10 ZS UZ	8022 0259	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SM 10 ZS ZO	8022 0600	2 NC contacts	10		3.30	side
SM 10 ZS UZO	8022 0601	2 NC contacts	10		3.30	bottom

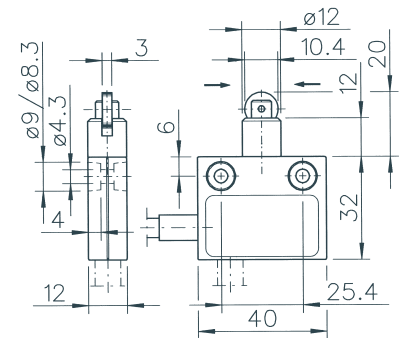


Approaching angle: max 20°, approaching speed: max 1 m/s

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 ZTS	8022 0084	1 changeover contact	5		1.00	side
SM 5 ZTS U	8022 0085	1 changeover contact	5		1.00	bottom
SM 10 ZTS	8022 0086	1 changeover contact	10		2.00	side
SM 10 ZTS U	8022 0087	1 changeover contact	10		2.00	bottom
SM 01 ZTS	8022 0272	1 changeover contact	0.1		1.60	side
SM 01 ZTS U	8022 0273	1 changeover contact	0.1		1.60	bottom
SM 4 ZTS	8022 0274	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 ZTS U	8022 0275	1 NC contact/ 1 NO contact	4		2.00	bottom
SM 8 ZTS	8022 0276	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 ZTS U	8022 0277	1 NC contact/ 1 NO contact	8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 ZTS Z	8022 0278	1 NC contact/ 1 NO contact	10		3.30	side
SM 10 ZTS UZ	8022 0279	1 NC contact/ 1 NO contact	10		3.30	bottom
<b>NEW</b> SM 10 ZTS ZO	8022 0602	2 NC contacts	10		3.30	side
SM 10 ZTS UZO	8022 0603	2 NC contacts	10		3.30	bottom

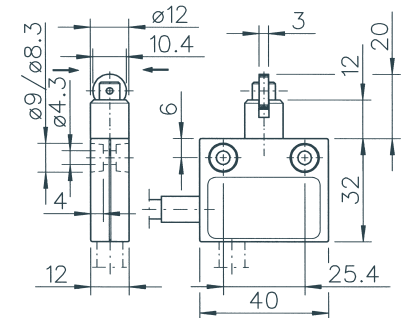


Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 T26R	8022 0128	1 changeover contact	5		1.00	side
SM 5 T26R U	8022 0129		5		1.00	bottom
SM 10 T26R	8022 0130	1 changeover contact	10		2.00	side
SM 10 T26R U	8022 0131		10		2.00	bottom
SM 01 T26R	8022 0292	1 changeover contact	0.1		1.60	side
SM 01 T26R U	8022 0293		0.1		1.60	bottom
SM 4 T26R	8022 0294	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 T26R U	8022 0295		4		2.00	bottom
SM 8 T26R	8022 0296	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 T26R U	8022 0297		8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 T26R Z	8022 0298	1 NC contact/ 1 NO contact	10		3.30	side
SM 10 T26R U Z	8022 0299		10		3.30	bottom
<b>NEW</b> SM 10 T26R ZO	8022 0604	2 NC contacts	10		3.30	side
SM 10 T26R UZO	8022 0605		10		3.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

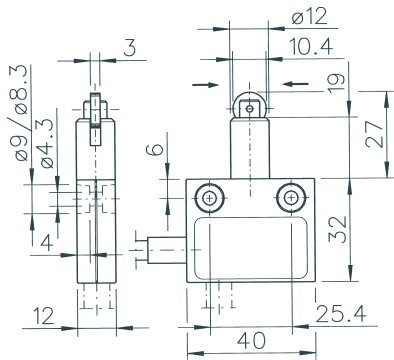
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 T26R90	8022 0132	1 changeover contact	5		1.00	side
SM 5 T26R90 U	8022 0133		5		1.00	bottom
SM 10 T26R90	8022 0134	1 changeover contact	10		2.00	side
SM 10 T26R90 U	8022 0135		10		2.00	bottom
SM 01 T26R90	8022 0312	1 changeover contact	0.1		1.60	side
SM 01 T26R90 U	8022 0313		0.1		1.60	bottom
SM 4 T26R90	8022 0314	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 T26R90 U	8022 0315		4		2.00	bottom
SM 8 T26R90	8022 0316	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 T26R90 U	8022 0317		8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 T26R90 Z	8022 0318	1 NC contact/ 1 NO contact	10		3.30	side
SM 10 T26R90 UZ	8022 0319		10		3.30	bottom
<b>NEW</b> SM 10 T26R90 Z	8022 0606	2 NC contacts	10		3.30	side
SM 10 T26R90 UZ	8022 0607		10		3.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

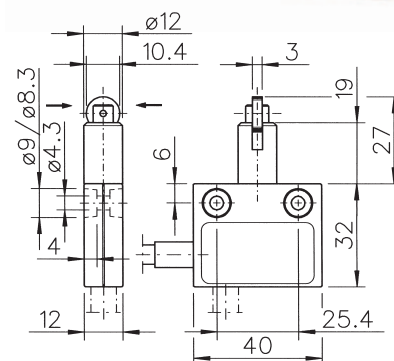
# Sub-miniature switch SM

## Type table for sub-miniature switch SM, standard selection



Approaching angle: max 30°, approaching speed: max 3 m/s

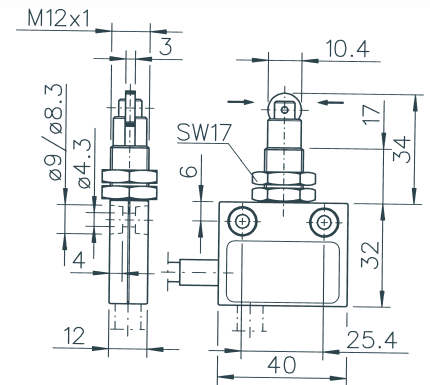
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 T33R	8022 0136	1 changeover contact	5		1.00	side
SM 5 T33R U	8022 0137		5		1.00	bottom
SM 10 T33R	8022 0138	1 changeover contact	10		2.00	side
SM 10 T33R U	8022 0139		10		2.00	bottom
SM 01 T33R	8022 0332	1 changeover contact	0.1		1.60	side
SM 01 T33R U	8022 0332		0.1		1.60	bottom
SM 4 T33R	8022 0334	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 T33R U	8022 0335		4		2.00	bottom
SM 8 T33R	8022 0336	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 T33R U	8022 0337		8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 T33R Z	8022 0338	1 NC contact/ 1 NO contact	10		3.30	side
SK 10 T33R U Z	8022 0339		10		3.30	bottom
<b>NEW</b> SM 10 T33R ZO	8022 0608	2 NC contacts	10		3.30	side
SK 10 T33R U ZO	8022 0609		10		3.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

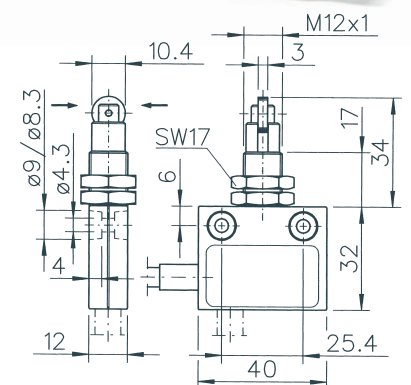
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 T33R90	8022 0140	1 changeover contact	5		1.00	side
SM 5 T33R90 U	8022 0141		5		1.00	bottom
SM 10 T33R90 S	8022 0142	1 changeover contact	10		2.00	side
SM 10 T33R90 U	8022 0143		10		2.00	bottom
SM 01 T33R90	8022 0352	1 changeover contact	0.1		1.60	side
SM 01 T33R90 U	8022 0353		0.1		1.60	bottom
SM 4 T33R90	8022 0354	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 T33R90 U	8022 0355		4		2.00	bottom
SM 8 T33R90	8022 0356	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 T33R90 U	8022 0357		8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 T33R90 Z	8022 0358	1 NC contact/ 1 NO contact	10		3.30	side
SM 10 T33R90 UZ	8022 0359		10		3.30	bottom
<b>NEW</b> SM 10 T33R90 ZO	8022 0610	2 NC contacts	10		3.30	side
SM 10 T33R90 UZO	8022 0611		10		3.30	bottom

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 ZTR	8022 0088	1 changeover contact	5		1.00	side
SM 5 ZTR U	8022 0089		5		1.00	bottom
SM 10 ZTR	8022 0090	1 changeover contact	10		2.00	side
SM 10 ZTR U	8022 0091		10		2.00	bottom
SM 01 ZTR	8022 0372	1 changeover contact	0.1		1.60	side
SM 01 ZTR U	8022 0373		0.1		1.60	bottom
SM 4 ZTR	8022 0374	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 ZTR U	8022 0375		4		2.00	bottom
SM 8 ZTR	8022 0376	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 ZTR U	8022 0377		8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 ZTR Z	8022 0378	1 NC contact/ 1 NO contact	10		3.30	side
SM 10 ZTR U Z	8022 0379		10		3.30	bottom
<b>NEW</b> SM 10 ZTR ZO	8022 0612	2 NC contacts	10		3.30	side
SM 10 ZTR U ZO	8022 0613		10		3.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

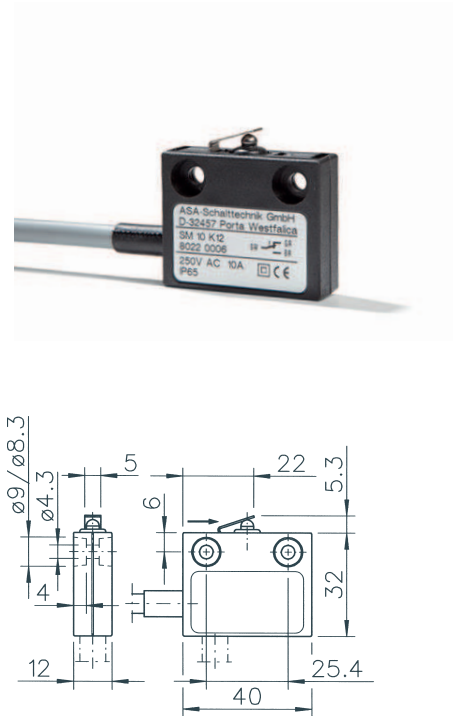
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 ZTR90	8022 0092	1 changeover contact	5		1.00	side
SM 5 ZTR90 U	8022 0093		5		1.00	bottom
SM 10 ZTR90	8022 0094	1 changeover contact	10		2.00	side
SM 10 ZTR90 U	8022 0095		10		2.00	bottom
SM 01 ZTR90	8022 0392	1 changeover contact	0.1		1.60	side
SM 01 ZTR90 U	8022 0393		0.1		1.60	bottom
SM 4 ZTR90	8022 0394	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 ZTR90 U	8022 0395		4		2.00	bottom
SM 8 ZTR90	8022 0396	1 NC contact/ 1 NO contact	8		2.20	side
SM 8 ZTR90 U	8022 0397		8		2.20	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 ZTR90 Z	8022 0398	1 NC contact/ 1 NO contact	10		3.30	side
SM 10 ZTR90 U Z	8022 0399		10		3.30	bottom
<b>NEW</b> SM 10 ZTR90 ZO	8022 0614	2 NC contacts	10		3.30	side
SM 10 ZTR90 U ZO	8022 0615		10		3.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

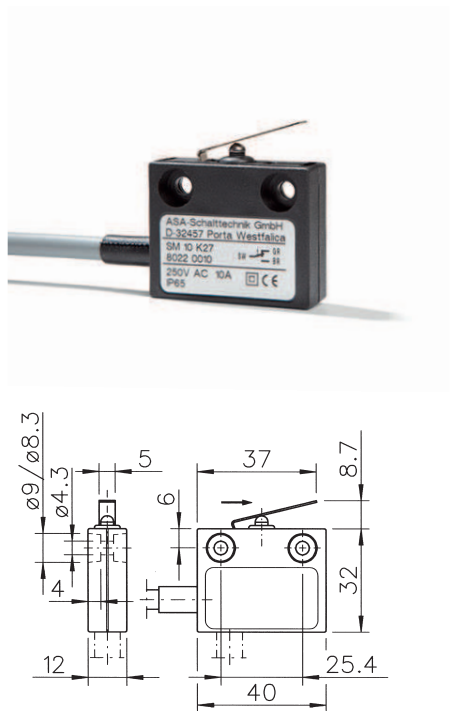
# Sub-miniature switch SM

## Type table for sub-miniature switch SM, standard selection



Approaching angle: max 30°, approaching speed: max 3 m/s

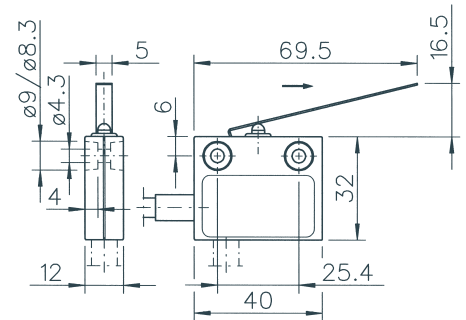
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 K12	8022 0004	1 changeover contact	5		0.80	side
SM 5 K12 U	8022 0005		5		0.80	bottom
SM 10 K12	8022 0006	1 changeover contact	10		1.90	side
SM 10 K12 U	8022 0007		10		1.90	bottom
SM 01 K12	8022 0412	1 changeover contact	0.1		1.70	side
SM 01 K12 U	8022 0413		0.1		1.70	bottom
SM 4 K12	8022 0414	1 NC contact/ 1 NO contact	4		1.90	side
SM 4 K12 U	8022 0415		4		1.90	bottom
SM 8 K12	8022 0416	1 NC contact/ 1 NO contact	8		1.80	side
SM 8 K12 U	8022 0417		8		1.80	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

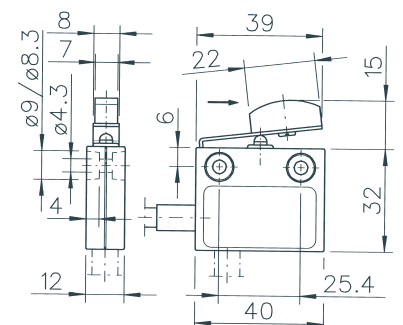
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 K27	8022 0008	1 changeover contact	5		0.40	side
SM 5 K27 U	8022 0009		5		0.40	bottom
SM 10 K27	8022 0010	1 changeover contact	10		0.85	side
SM 10 K27 U	8022 0011		10		0.85	bottom
SM 01 K27	8022 0418	1 changeover contact	0.1		0.70	side
SM 01 K27 U	8022 0419		0.1		0.70	bottom
SM 4 K27	8022 0420	1 NC contact/ 1 NO contact	4		0.80	side
SM 4 K27 U	8022 0421		4		0.80	bottom
SM 8 K27	8022 0422	1 NC contact/ 1 NO contact	8		0.90	side
SM 8 K27 U	8022 0423		8		0.90	bottom

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 K60	8022 0012	1 changeover contact	5		0.20	side
SM 5 K60 U	8022 0013		5		0.20	bottom
SM 10 K60	8022 0014	1 changeover contact	10		0.40	side
SM 10 K60 U	8022 0015		10		0.40	bottom
SM 01 K60	8022 0424	1 changeover contact	0.1		0.30	side
SM 01 K60 U	8022 0425		0.1		0.30	bottom
SM 4 K60	8022 0426	1 NC contact/ 1 NO contact	4		0.40	side
SM 4 K60 U	8022 0427		4		0.40	bottom
SM 8 K60	8022 0428	1 NC contact/ 1 NO contact	8		0.45	side
SM 8 K60 U	8022 0429		8		0.45	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 G38G	8022 0096	1 changeover contact	5		0.60	side
SM 5 G38G U	8022 0097		5		0.60	bottom
SM 10 G38G	8022 0098	1 changeover contact	10		1.10	side
SM 10 G38G U	8022 0099		10		1.10	bottom
SM 01 G38G	8022 0430	1 changeover contact	0.1		0.80	side
SM 01 G38G U	8022 0431		0.1		0.80	bottom
SM 4 G38G	8022 0432	1 NC contact/ 1 NO contact	4		1.45	side
SM 4 G38G U	8022 0433		4		1.45	bottom
SM 8 G38G	8022 0434	1 NC contact/ 1 NO contact	8		1.50	side
SM 8 G38G U	8022 0435		8		1.50	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

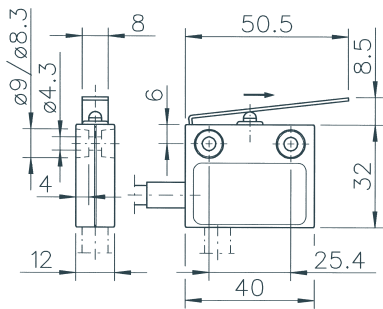
**Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1**

SM 10 G38G Z	8022 0436	1 NC contact/ 1 NO contact	10		2.50	side
SM 10 G38G UZ	8022 0437		10		2.50	bottom
SM 10 G38G ZO	8022 0616	2 NC contacts	10		2.50	side
SM 10 G38G UZO	8022 0617		10		2.50	bottom

**NEW**

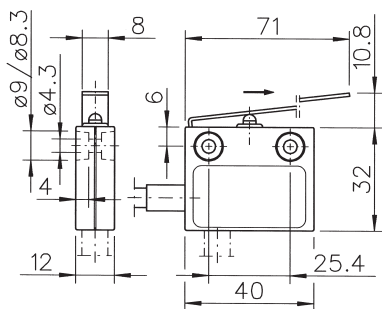
# Sub-miniature switch SM

## Type table for sub-miniature switch SM, standard selection



Approaching angle: max 30°, approaching speed: max 3 m/s

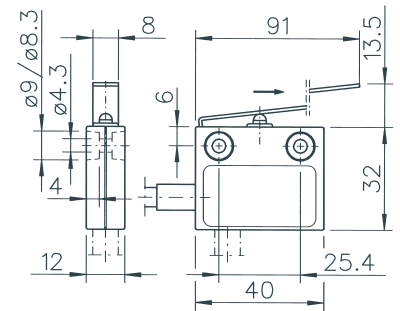
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 G50G	8022 0032	1 changeover contact	5		0.40	side
SM 5 G50G U	8022 0033		5		0.40	bottom
SM 10 G50G	8022 0034	1 changeover contact	10		0.85	side
SM 10 G50G U	8022 0035		10		0.85	bottom
SM 01 G50G	8022 0438	1 changeover contact	0.1		0.70	side
SM 01 G50G U	8022 0439		0.1		0.70	bottom
SM 4 G50G	8022 0440	1 NC contact/ 1 NO contact	4		0.70	side
SM 4 G50G U	8022 0441		4		0.70	bottom
SM 8 G50G	8022 0442	1 NC contact/ 1 NO contact	8		0.75	side
SM 8 G50G U	8022 0443		8		0.75	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 G50G Z	8022 0444	1 NC contact/ 1 NO contact	10		1.60	side
SM 10 G50G U Z	8022 0445		10		1.60	bottom
<b>NEW</b> SM 10 G50G ZO	8022 0618	2 NC contacts	10		1.60	side
SM 10 G50G UZO	8022 0619		10		1.60	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

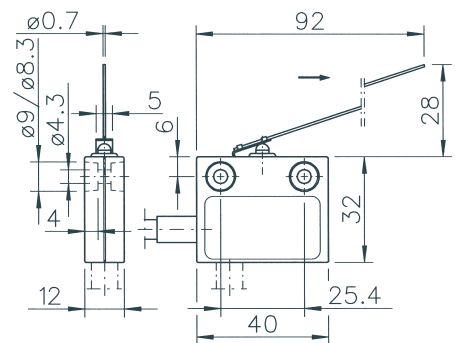
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 G70G	8022 0036	1 changeover contact	5		0.30	side
SM 5 G70G U	8022 0037		5		0.30	bottom
SM 10 G70G	8022 0038	1 changeover contact	10		0.55	side
SM 10 G70G U	8022 0039		10		0.55	bottom
SM 01 G70G	8022 0446	1 changeover contact	0.1		0.45	side
SM 01 G70G U	8022 0447		0.1		0.45	bottom
SM 4 G70G	8022 0448	1 NC contact/ 1 NO contact	4		0.55	side
SM 4 G70G U	8022 0449		4		0.55	bottom
SM 8 G70G	8022 0450	1 NC contact/ 1 NO contact	8		0.60	side
SM 8 G70G U	8022 0451		8		0.60	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 G70G Z	8022 0452	1 NC contact/ 1 NO contact	10		1.05	side
SM 10 G70G U Z	8022 0453		10		1.05	bottom
<b>NEW</b> SM 10 G70G ZO	8022 0620	2 NC contacts	10		1.05	side
SM 10 G70G UZO	8022 0621		10		1.05	bottom

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 G90G	8022 0040	1 changeover contact	5		0.25	side
SM 5 G90G U	8022 0041	1 changeover contact	5		0.25	bottom
SM 10 G90G	8022 0042	1 changeover contact	10		0.45	side
SM 10 G90G U	8022 0043	1 changeover contact	10		0.45	bottom
SM 01 G90G	8022 0454	1 changeover contact	0.1		0.35	side
SM 01 G90G U	8022 0455	1 changeover contact	0.1		0.35	bottom
SM 4 G90G	8022 0456	1 NC contact/ 1 NO contact	4		0.45	side
SM 4 G90G U	8022 0457	1 NC contact/ 1 NO contact	4		0.45	bottom
SM 8 G90G	8022 0458	1 NC contact/ 1 NO contact	8		0.50	side
SM 8 G90G U	8022 0459	1 NC contact/ 1 NO contact	8		0.50	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 G90G Z	8022 0460	1 NC contact/ 1 NO contact	10		0.80	side
SM 10 G90G U Z	8022 0461	1 NC contact/ 1 NO contact	10		0.80	bottom
<b>NEW</b> SM 10 G90G Z	8022 0622	2 NC contacts	10		0.80	side
SM 10 G90G U Z	8022 0623	2 NC contacts	10		0.80	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 D85	8022 0056	1 changeover contact	5		0.20	side
SM 5 D85 U	8022 0057	1 changeover contact	5		0.20	bottom
SM 01 D85	8022 0462	1 changeover contact	10		0.25	side
SM 01 D85 U	8022 0463	1 changeover contact	10		0.25	bottom



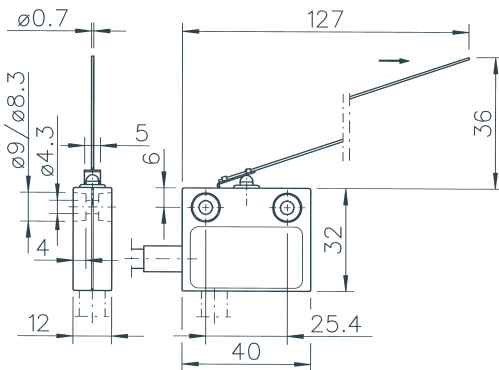
Approaching angle: max 30°, approaching speed: max 3 m/s

# Sub-miniature switch SM

## Type table for sub-miniature switch SM, standard selection



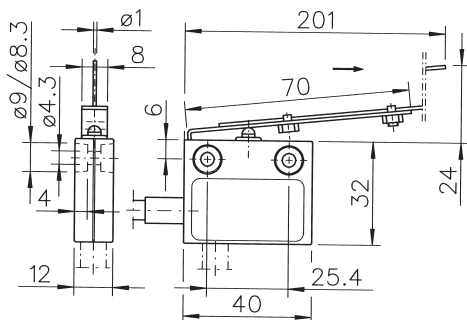
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 D120	8022 0058	1 changeover contact	5		0.15	side
SM 5 D120 U	8022 0059	1 changeover contact	5		0.15	bottom
SM 01 D120	8022 0464	1 changeover contact	10		0.20	side
SM 01 D120 U	8022 0465	1 changeover contact	10		0.20	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s



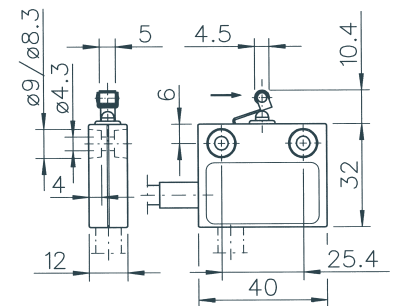
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 D200	8022 0080	1 changeover contact	5		0.15	side
SM 5 D200 U	8022 0081	1 changeover contact	5		0.15	bottom
SM 10 D200	8022 0082	1 changeover contact	10		0.25	side
SM 10 D200 U	8022 0083	1 changeover contact	10		0.25	bottom
SM 01 D200	8022 0466	1 changeover contact	0.1		0.20	side
SM 01 D200 U	8022 0467	1 changeover contact	0.1		0.20	bottom
SM 4 D200	8022 0468	1 NC contact/ 1 NO contact	4		0.20	side
SM 4 D200 U	8022 0469	1 NC contact/ 1 NO contact	4		0.20	bottom
SM 8 D200	8022 0470	1 NC contact/ 1 NO contact	8		0.20	side
SM 8 D200 U	8022 0471	1 NC contact/ 1 NO contact	8		0.20	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

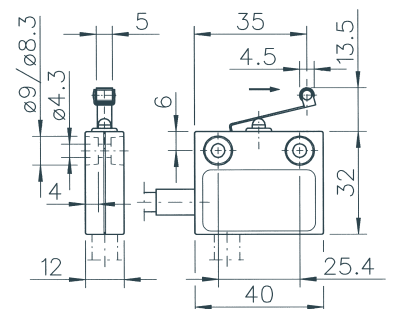
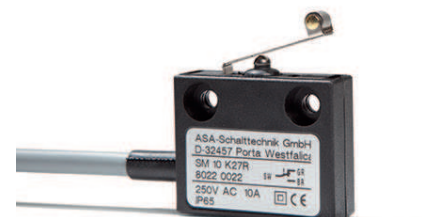


Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 K12R	8022 0016	1 changeover contact	5		0.70	side
SM 5 K12R U	8022 0017	1 changeover contact	5		0.70	bottom
SM 10 K12R	8022 0018	1 changeover contact	10		1.90	side
SM 10 K12RU	8022 0019	1 changeover contact	10		1.90	bottom
SM 01 K12R	8022 0472	1 changeover contact	0.1		1.70	side
SM 01 K12R U	8022 0473	1 changeover contact	0.1		1.70	bottom
SM 4 K12R	8022 0474	1 NC contact/ 1 NO contact	4		1.90	side
SM 4 K12R U	8022 0475	1 NC contact/ 1 NO contact	4		1.90	bottom
SM 8 K12R	8022 0476	1 NC contact/ 1 NO contact	8		1.80	side
SM 8 K12R U	8022 0477	1 NC contact/ 1 NO contact	8		1.80	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

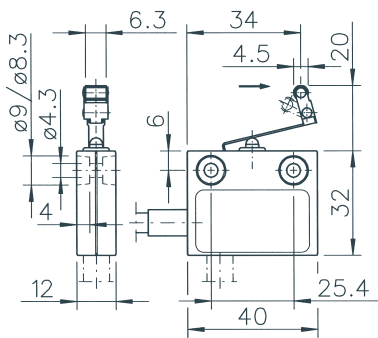
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 K27R	8022 0020	1 changeover contact	5		0.40	side
SM 5 K27R U	8022 0021	1 changeover contact	5		0.40	bottom
SM 10 K27R	8022 0022	1 changeover contact	10		0.85	side
SM 10 K27RU	8022 0023	1 changeover contact	10		0.85	bottom
SM 01 K27R	8022 0478	1 changeover contact	0.1		0.70	side
SM 01 K27R U	8022 0479	1 changeover contact	0.1		0.70	bottom
SM 4 K27R	8022 0480	1 NC contact/ 1 NO contact	4		0.80	side
SM 4 K27R U	8022 0481	1 NC contact/ 1 NO contact	4		0.80	bottom
SM 8 K27R	8022 0482	1 NC contact/ 1 NO contact	8		0.90	side
SM 8 K27R U	8022 0483	1 NC contact/ 1 NO contact	8		0.90	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

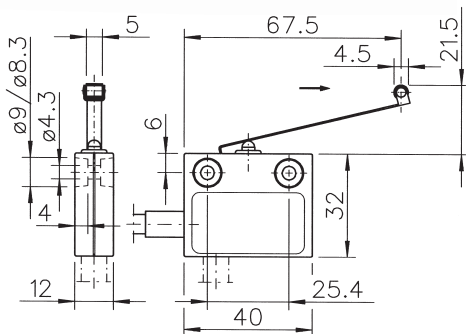
# Sub-miniature switch SM

## Type table for sub-miniature switch SM, standard selection



Approaching angle: max 30°, approaching speed: max 3 m/s

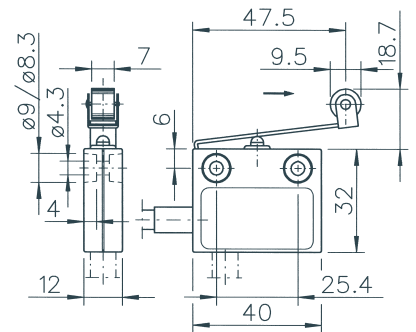
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 K27K	8022 0024	1 changeover contact	5		0.40	side
SM 5 K27K U	8022 0025	1 changeover contact	5		0.40	bottom
SM 10 K27K	8022 0026	1 changeover contact	10		0.85	side
SM 10 K27KU	8022 0027	1 changeover contact	10		0.85	bottom
SM 01 K27K	8022 0484	1 changeover contact	0.1		0.70	side
SM 01 K27K U	8022 0485	1 changeover contact	0.1		0.70	bottom
SM 4 K27K	8022 0486	1 NC contact/ 1 NO contact	4		0.80	side
SM 4 K27K U	8022 0487	1 NC contact/ 1 NO contact	4		0.80	bottom
SM 8 K27K	8022 0488	1 NC contact/ 1 NO contact	8		0.90	side
SM 8 K27K U	8022 0489	1 NC contact/ 1 NO contact	8		0.90	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

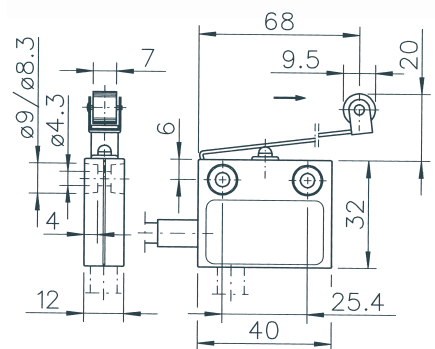
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 K60R	8022 0060	1 changeover contact	5		0.20	side
SM 5 K60R U	8022 0061	1 changeover contact	5		0.20	bottom
SM 10 K60R	8022 0062	1 changeover contact	10		0.40	side
SM 10 K60RU	8022 0063	1 changeover contact	10		0.40	bottom
SM 01 K60R	8022 0490	1 changeover contact	0.1		0.30	side
SM 01 K60R U	8022 0491	1 changeover contact	0.1		0.30	bottom
SM 4 K60R	8022 0492	1 NC contact/ 1 NO contact	4		0.40	side
SM 4 K60R U	8022 0493	1 NC contact/ 1 NO contact	4		0.40	bottom
SM 8 K60R	8022 0494	1 NC contact/ 1 NO contact	8		0.40	side
SM 8 K60R U	8022 0495	1 NC contact/ 1 NO contact	8		0.40	bottom

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 G50R	8022 0044	1 changeover contact	5		0.40	side
SM 5 G50R U	8022 0045	1 changeover contact	5		0.40	bottom
SM 10 G50R	8022 0046	1 changeover contact	10		0.85	side
SM 10 G50R U	8022 0047	1 changeover contact	10		0.85	bottom
SM 01 G50R	8022 0496	1 changeover contact	0.1		0.70	side
SM 01 G50R U	8022 0497	1 changeover contact	0.1		0.70	bottom
SM 4 G50R	8022 0498	1 NC contact/ 1 NO contact	4		0.70	side
SM 4 G50R U	8022 0499	1 NC contact/ 1 NO contact	4		0.70	bottom
SM 8 G50R	8022 0500	1 NC contact/ 1 NO contact	8		0.75	side
SM 8 G50R U	8022 0501	1 NC contact/ 1 NO contact	8		0.75	bottom
<b>Ⓟ ⤴ Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1</b>						
SM 10 G50R Z	8022 0502	1 NC contact/ 1 NO contact	10		1.60	side
SM 10 G50R UZ	8022 0503	1 NC contact/ 1 NO contact	10		1.60	bottom
<b>NEW</b> SM 10 G50R ZO	8022 0634	2 NC contacts	10		1.60	side
SM 10 G50R UZO	8022 0635	2 NC contacts	10		1.60	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

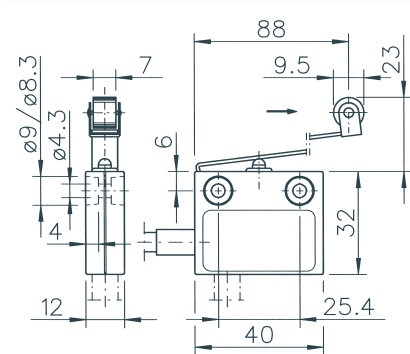
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 G70R	8022 0048	1 changeover contact	5		0.30	side
SM 5 G70R U	8022 0049	1 changeover contact	5		0.30	bottom
SM 10 G70R	8022 0050	1 changeover contact	10		0.55	side
SM 10 G70R U	8022 0051	1 changeover contact	10		0.55	bottom
SM 01 G70R	8022 0504	1 changeover contact	0.1		0.45	side
SM 01 G70R U	8022 0505	1 changeover contact	0.1		0.45	bottom
SM 4 G70R	8022 0506	1 NC contact/ 1 NO contact	4		0.55	side
SM 4 G70R U	8022 0507	1 NC contact/ 1 NO contact	4		0.55	bottom
SM 8 G70R	8022 0508	1 NC contact/ 1 NO contact	8		0.60	side
SM 8 G70R U	8022 0509	1 NC contact/ 1 NO contact	8		0.60	bottom
<b>Ⓟ ⤴ Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1</b>						
SM 10 G70R Z	8022 0510	1 NC contact/ 1 NO contact	10		1.05	side
SM 10 G70R UZ	8022 0511	1 NC contact/ 1 NO contact	10		1.05	bottom
<b>NEW</b> SM 10 G70R ZO	8022 0624	2 NC contacts	10		1.05	side
SM 10 G70R UZO	8022 0625	2 NC contacts	10		1.05	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

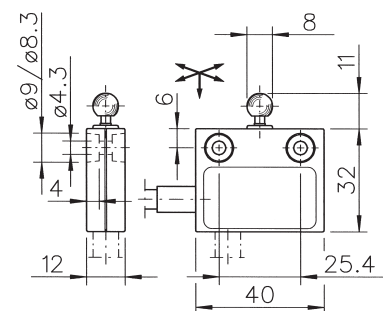
# Sub-miniature switch SM

## Type table for sub-miniature switch SM, standard selection



Approaching angle: max 30°, approaching speed: max 3 m/s

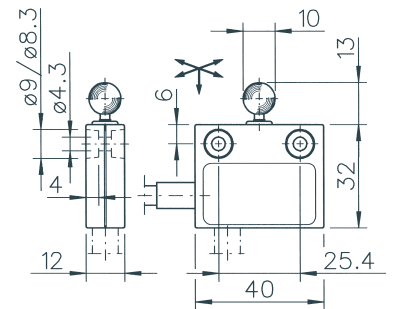
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 G90R	8022 0052	1 changeover contact	5		0.25	side
SM 5 G90R U	8022 0053	1 changeover contact	5		0.25	bottom
SM 10 G90R	8022 0054	1 changeover contact	10		0.45	side
SM 10 G90R U	8022 0055	1 changeover contact	10		0.45	bottom
SM 01 G90R	8022 0512	1 changeover contact	0.1		0.35	side
SM 01 G90R U	8022 0513	1 changeover contact	0.1		0.35	bottom
SM 4 G90R	8022 0514	1 NC contact/ 1 NO contact	4		0.45	side
SM 4 G90R U	8022 0515	1 NC contact/ 1 NO contact	4		0.45	bottom
SM 8 G90R	8022 0516	1 NC contact/ 1 NO contact	8		0.50	side
SM 8 G90R U	8022 0517	1 NC contact/ 1 NO contact	8		0.50	bottom
<b>Ⓟ Ⓜ Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1</b>						
SM 10 G90R Z	8022 0518	1 NC contact/ 1 NO contact	10		0.90	side
SM 10 G90R UZ	8022 0519	1 NC contact/ 1 NO contact	10		0.90	bottom
<b>NEW</b> SM 10 G90R ZO	8022 0626	2 NC contacts	10		0.90	side
SM 10 G90R UZO	8022 0627	2 NC contacts	10		0.90	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

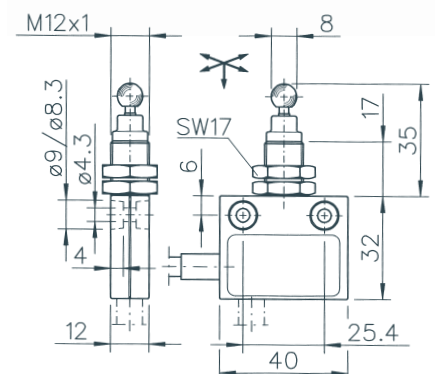
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 F1KI	8022 0104	1 changeover contact	5		0.60	side
SM 5 F1KI U	8022 0105	1 changeover contact	5		0.60	bottom
SM 10 F1KI	8022 0106	1 changeover contact	10		1.10	side
SM 10 F1KI U	8022 0107	1 changeover contact	10		1.10	bottom
SM 01 F1KI	8022 0520	1 changeover contact	0.1		1.00	side
SM 01 F1KI U	8022 0521	1 changeover contact	0.1		1.00	bottom
SM 4 F1KI	8022 0522	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 F1KI U	8022 0523	1 NC contact/ 1 NO contact	4		2.00	bottom
SM 8 F1KI	8022 0524	1 NC contact/ 1 NO contact	8		2.10	side
SM 8 F1KI U	8022 0525	1 NC contact/ 1 NO contact	8		2.10	bottom
<b>Ⓟ Ⓜ Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1</b>						
SM 10 F1KI Z	8022 0526	1 NC contact/ 1 NO contact	10		2.60	side
SM 10 F1KI UZ	8022 0527	1 NC contact/ 1 NO contact	10		2.60	bottom
<b>NEW</b> SM 10 F1KI ZO	8022 0628	2 NC contacts	10		2.60	side
SM 10 F1KI UZO	8022 0629	2 NC contacts	10		2.60	bottom

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 F1Kg	8022 0108	1 changeover contact	5		0.60	side
SM 5 F1Kg U	8022 0109		5		0.60	bottom
SM 10 F1Kg	8022 0110	1 changeover contact	10		1.10	side
SM 10 F1Kg U	8022 0111		10		1.10	bottom
SM 01 F1Kg	8022 0528	1 changeover contact	0.1		1.00	side
SM 01 F1Kg U	8022 0529		0.1		1.00	bottom
SM 4 F1Kg	8022 0530	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 F1Kg U	8022 0531		4		2.00	bottom
SM 8 F1Kg	8022 0532	1 NC contact/ 1 NO contact	8		2.10	side
SM 8 F1Kg U	8022 0533		8		2.10	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 F1Kg Z	8022 0534	1 NC contact/ 1 NO contact	10		2.60	side
SM 10 F1Kg UZ	8022 0535		10		2.60	bottom
<b>NEW</b> SM 10 F1Kg ZO	8022 0630	2 NC contacts	10		2.60	side
SM 10 F1Kg UZO	8022 0631		10		2.60	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s  
Operation possible from all sides

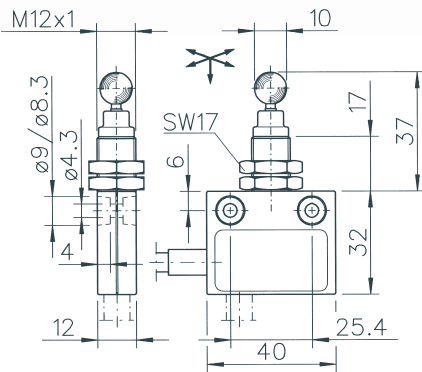
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 ZF1KI	8022 0112	1 changeover contact	5		0.60	side
SM 5 ZF1KI U	8022 0113		5		0.60	bottom
SM 10 ZF1KI	8022 0114	1 changeover contact	10		1.10	side
SM 10 ZF1KI U	8022 0115		10		1.10	bottom
SM 01 ZF1KI	8022 0536	1 changeover contact	0.1		1.00	side
SM 01 ZF1KI U	8022 0537		0.1		1.00	bottom
SM 4 ZF1KI	8022 0538	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 ZF1KI U	8022 0539		4		2.00	bottom
SM 8 ZF1KI	8022 0540	1 NC contact/ 1 NO contact	8		2.10	side
SM 8 ZF1KI U	8022 0541		8		2.10	bottom
Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1						
SM 10 ZF1KI Z	8022 0542	1 NC contact/ 1 NO contact	10		2.60	side
SM 10 ZF1KI UZ	8022 0543		10		2.60	bottom
<b>NEW</b> SM 10 ZF1KI ZO	8022 0632	2 NC contacts	10		2.60	side
SM 10 ZF1KI UZO	8022 0633		10		2.60	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s  
Operation possible from all sides

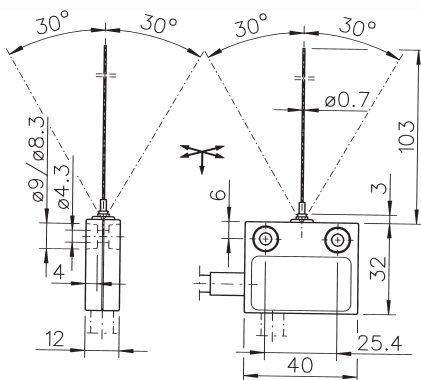
# Sub-miniature switch SM

## Type table for sub-miniature switch SM, standard selection



Approaching angle: max 30°, approaching speed: max 3 m/s  
Operation possible from all sides

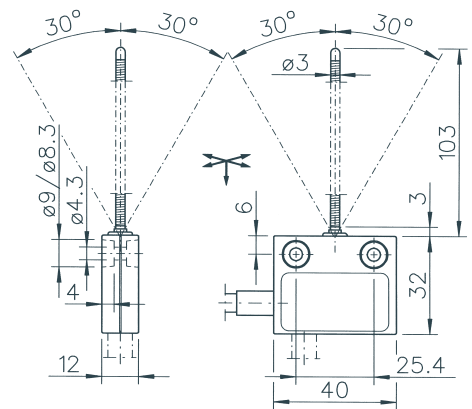
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 ZF1Kg	8022 0116	1 changeover contact	5		0.60	side
SM 5 ZF1Kg U	8022 0117	1 changeover contact	5		0.60	bottom
SM 10 ZF1Kg	8022 0118	1 changeover contact	10		1.10	side
SM 10 ZF1Kg U	8022 0119	1 changeover contact	10		1.10	bottom
SM 01 ZF1Kg	8022 0544	1 changeover contact	0.1		1.00	side
SM 01 ZF1Kg U	8022 0545	1 changeover contact	0.1		1.00	bottom
SM 4 ZF1Kg	8022 0546	1 NC contact/ 1 NO contact	4		2.00	side
SM 4 ZF1Kg U	8022 0547	1 NC contact/ 1 NO contact	4		2.00	bottom
SM 8 ZF1Kg	8022 0548	1 NC contact/ 1 NO contact	8		2.10	side
SM 8 ZF1Kg U	8022 0549	1 NC contact/ 1 NO contact	8		2.10	bottom
<b>⊕ → Positive opening according to IEC/EN 60204 and IEC/EN 60947-5-1</b>						
SM 10 ZF1Kg Z	8022 0550	1 NC contact/ 1 NO contact	10		2.60	side
SM 10ZF1KgUZ	8022 0551	1 NC contact/ 1 NO contact	10		2.60	bottom
<b>NEW</b> SM 10 ZF1Kg ZO	8022 0636	2 NC contacts	10		2.60	side
SM 10ZF1KgUZO	8022 0637	2 NC contacts	10		2.60	bottom



Operation possible from all sides

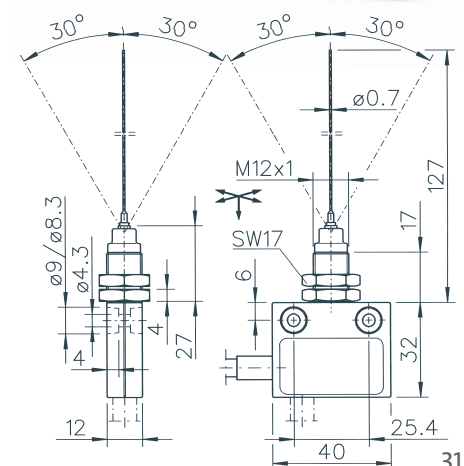
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 F100D	8022 0064	1 changeover contact	5		0.10	side
SM 5 F100D U	8022 0065	1 changeover contact	5		0.10	bottom
SM 10 F100D	8022 0066	1 changeover contact	10		0.12	side
SM 10 F100D U	8022 0067	1 changeover contact	10		0.12	bottom
SM 01 F100D	8022 0552	1 changeover contact	0.1		0.11	side
SM 01 F100D U	8022 0553	1 changeover contact	0.1		0.11	bottom
SM 4 F100D	8022 0554	1 NC contact/ 1 NO contact	4		0.16	side
SM 4 F100D U	8022 0555	1 NC contact/ 1 NO contact	4		0.16	bottom
SM 8 F100D	8022 0556	1 NC contact/ 1 NO contact	8		0.17	side
SM 8 F100D U	8022 0557	1 NC contact/ 1 NO contact	8		0.17	bottom

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 F100F	8022 0068	1 changeover contact	5		0.10	side
SM 5 F100F U	8022 0069					bottom
SM 10 F100F	8022 0070	1 changeover contact	10		0.12	side
SM 10 F100F U	8022 0071					bottom
SM 01 F100F	8022 0558	1 changeover contact	0.1		0.11	side
SM 01 F100F U	8022 0559					bottom



Operation possible from all sides

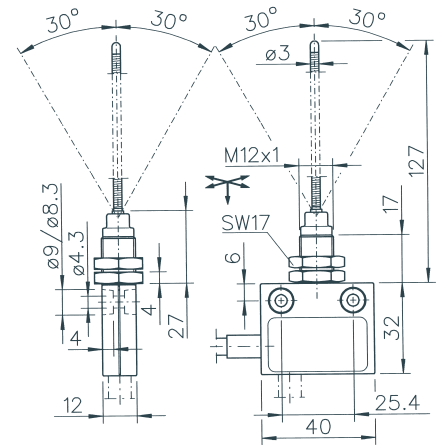
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 ZF100D	8022 0072	1 changeover contact	5		0.10	side
SM 5 ZF100D U	8022 0073					bottom
SM 10 ZF100D	8022 0074	1 changeover contact	10		0.12	side
SM 10 ZF100D U	8022 0075					bottom
SM 01 ZF100D	8022 0560	1 changeover contact	0.1		0.11	side
SM 01 ZF100D U	8022 0561					bottom
SM 4 ZF100D	8022 0562	1 NC contact/ 1 NO contact	4		0.16	side
SM 4 ZF100D U	8022 0563					bottom
SM 8 ZF100D	8022 0564	1 NC contact/ 1 NO contact	8		0.17	side
SM 8 ZF100D U	8022 0565					bottom



Operation possible from all sides

# Sub-miniature switch SM

## Type table for sub-miniature switch SM, standard selection



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SM 5 ZF100F	8022 0076	1 changeover contact	5	BK-BN BK-GY	0.10	side
SM 5 ZF100F U	8022 0077	1 changeover contact	5	BK-BN BK-GY	0.10	bottom
SM 10 ZF100F	8022 0078	1 changeover contact	10	BK-BN BK-GY	0.12	side
SM 10 ZF100F U	8022 0079	1 changeover contact	10	BK-BN BK-GY	0.12	bottom
SM 01 ZF100F	8022 0566	1 changeover contact	0.1	BK-BN BK-GY	0.11	side
SM 01 ZF100F U	8022 0567	1 changeover contact	0.1	BK-BN BK-GY	0.11	bottom

Operation possible from all sides



## Key



### Explanation of the wiring diagrams



### Colour codes according to DIN IEC 757

- BK** black
- BN** brown
- BU** blue
- GY** grey
- RD** red
- WH** white

### Other signs

-  Opening travel according to GS-ET-15
-  Opening contact

# Sub-miniature switch SDK, SDM

## The limiting sub-miniature switches in the SDK and SDM lines

The **SDK** line includes plastic-encapsulated, stackable miniature dual limit switches with plastic actuators. The sub-miniature switches in the **SDM** line include plastic-encapsulated, stackable miniature dual limit switches with metal actuators. Both lines are further developments of the successful **SM** line.

ASA sub-miniature switches in the **SDM** and **SDK** lines are limit switches that are especially characterised by functionality, flexibility and versatility. They are also popular because of their compact design and high mechanical stability. The advantage of these switch lines lies in the smart design details: one switch is fitted with two switch inserts but has just one actuator and one supply cable. Consequently, the lines solve the problem of switching two separate electric circuits, even when it would not be possible to arrange limit switches next to each other because of their design.

## Type key for SDK and SDM lines, standard designs

Example: **SDK 5 ZTS U**

<p><b>TYP</b></p> <p><b>SDK</b> Sub-miniature switch, dual limit switch with plastic actuator</p> <p><b>SDM</b> Sub-miniature switch, dual limit switch with metal actuator</p>	<p><b>Cabling</b></p> <p><b>U</b> Cable outlet, bottom</p>									
<p><b>Current capacity</b></p> <table border="1"> <tr> <td>5</td> <td>5</td> <td>Ampere</td> </tr> <tr> <td>10</td> <td>10</td> <td>Ampere</td> </tr> <tr> <td>0.1</td> <td>0.1</td> <td>Ampere</td> </tr> </table>	5	5	Ampere	10	10	Ampere	0.1	0.1	Ampere	<p><b>Actuator design</b></p> <p><b>S</b> Plunger</p> <p><b>R</b> Roller</p> <p><b>90</b> Roller, 90° offset</p> <p><b>G</b> Slider</p> <p><b>K</b> Hinge roller</p> <p><b>D</b> Wire</p> <p><b>F</b> Spring</p> <p><b>Kl</b> Sphere, <math>\varnothing</math> 8 mm</p> <p><b>Kg</b> Sphere, <math>\varnothing</math> 10 mm</p>
5	5	Ampere								
10	10	Ampere								
0.1	0.1	Ampere								
<p><b>Fastening</b></p> <p><b>Z</b> Central fastening attachment</p>	<p><b>Length unit for actuator</b></p> <p><b>1 to 200 mm</b></p>									
<p><b>Actuator</b></p> <p><b>S</b> Plunger</p> <p><b>T</b> Telescopic plunger</p> <p><b>K</b> Small lever, 5 mm wide</p> <p><b>G</b> Large lever, 8 mm wide</p> <p><b>D</b> Wire</p> <p><b>F</b> Spring probe</p>										

## Technical specifications for sub-miniature switch SDK and SDM lines

<b>Regulations:</b>	ASA sub-miniature switches are manufactured in accordance with the applicable regulations IEC/EN 60204 and IEC/EN 60947-5-1
<b>Design:</b>	Plastic-encapsulated stackable dual limit switch, sub-miniature switch design, fastening with screws M4, DIN 85 or central fastening attachment
<b>Housing:</b>	Thermoplastic PA 6.6 glass fibre-reinforced
<b>Connection:</b>	PVC control cable, structure corresponds with Ho5VV-F, grey RAL 7001, 6 x 0.5 mm <sup>2</sup> , length 1m, longer or shorter cables as special designs, special cables on request
<b>Cable inlet:</b>	side or bottom with protective rubber sleeve
<b>Protection class:</b>	IP 65 according to IEC/EN 60529, other protection classes on request
<b>Plunger:</b>	Thermoplastic PA 6.6 glass fibre reinforced, stainless steel, nickel-plated brass (depending on actuator design)
<b>Sleeve:</b>	Neoprene oil-resistant
<b>Lever actuator:</b>	nickel-plated, cold-rolled steel, stainless steel on request
<b>Spring actuator:</b>	Stainless steel
<b>Roller:</b>	Thermoplastic PA 6.6 glass fibre reinforced, sintered stainless steel, nickel-plated brass (depending on actuator design)
<b>Actuator travel:</b>	see type table
<b>Actuating force:</b>	see type table
<b>Installation position:</b>	optional
<b>Switching cycles:</b>	min. 10 million
<b>Working temperature:</b>	-20 °C to +80 °C

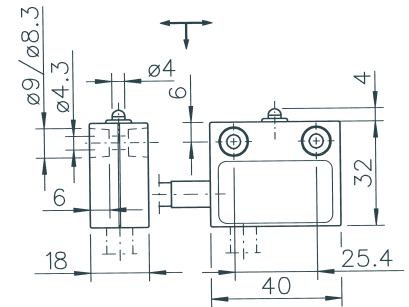
<b>Switch inserts</b>	...01... / ...5... / ...10...
Switch type:	1 changeover contact with
Switching system:	Snap-action mechanism
Contact material:	Gold / Silver / Silver
Voltage:	max. 250 VAC, 40-60Hz
Current capacity:	max. 0.1A / 5A / 10A
Approvals:	VDE, UL, CSA

# Sub-miniature switch SDK

## Type table for sub-miniature switch SDK, standard selection



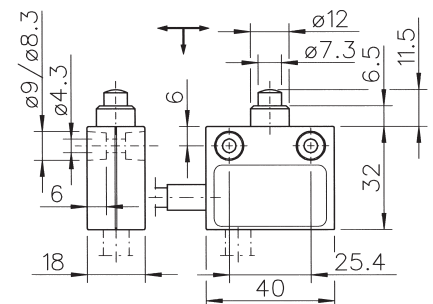
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDK 5 S	8023 0006	2 changeover contacts	5		1.80	side
SDK 5 S U	8023 0007		5		1.80	bottom
SDK 10 S	8023 0008	2 changeover contacts	10		3.20	side
SDK 10 S U	8023 0009		10		3.20	bottom
SDK 01 S	8023 0010	2 changeover contacts	0.1		2.30	side
SDK 01 S U	8023 0011		0.1		2.30	bottom



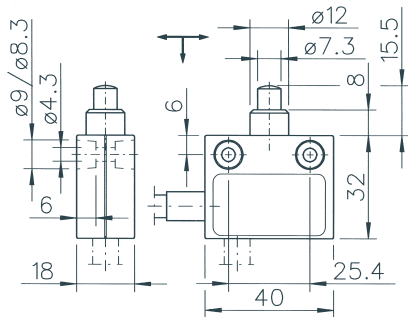
Approaching angle: max 20°, approaching speed: max 1 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDK 5 T17S	8023 0018	2 changeover contacts	5		1.80	side
SDK 5 T17S U	8023 0019		5		1.80	bottom
SDK 10 T17S	8023 0020	2 changeover contacts	10		3.20	side
SDK 10 T17S U	8023 0021		10		3.20	bottom
SDK 01 T17S	8023 0022	2 changeover contacts	0.1		2.30	side
SDK 01 T17S U	8023 0023		0.1		2.30	bottom



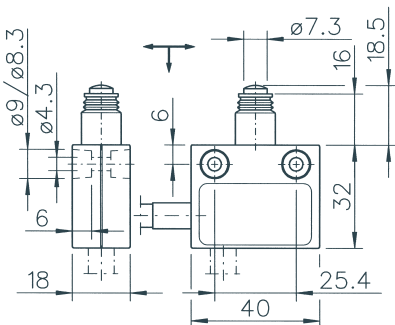
Approaching angle: max 20°, approaching speed: max 1 m/s



Approaching angle: max 20°, approaching speed: max 1 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDK 5 T21S	8023 0030	2 changeover contacts	5		1.80	side
SDK 5 T21S U	8023 0031		5		1.80	bottom
SDK 10 T21S	8023 0032	2 changeover contacts	10		3.20	side
SDK 10 T21S U	8023 0033		10		3.20	bottom
SDK 01 T21S	8023 0034	2 changeover contacts	0.1		2.30	side
SDK 01 T21S U	8023 0035		0.1		2.30	bottom



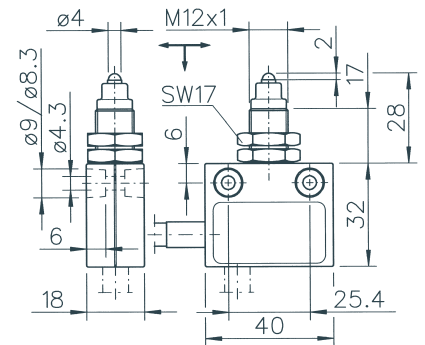
Approaching angle: max 20°, approaching speed: max 1 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDK 5 T24S	8023 0042	2 changeover contacts	5		2.30	side
SDK 5 T24S U	8023 0043		5		2.30	bottom
SDK 10 T24S	8023 0044	2 changeover contacts	10		3.70	side
SDK 10 T24S U	8023 0045		10		3.70	bottom
SDK 01 T24S	8023 0046	2 changeover contacts	0.1		2.80	side
SDK 01 T24S U	8023 0047		0.1		2.80	bottom

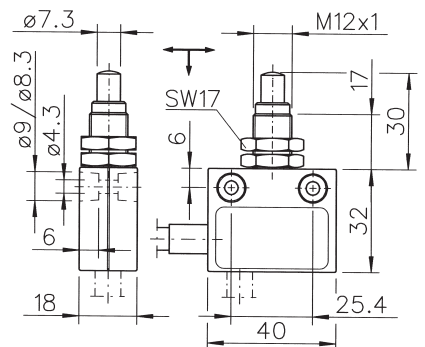
# Sub-miniature switch SDK

## Type table for sub-miniature switch SDK, standard selection



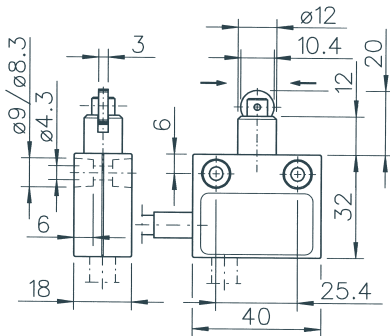
Approaching angle: max 20°, approaching speed: max 1 m/s

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDK 5 ZS	8023 0054	2 changeover contacts	5		1.80	side
SDK 5 ZS U	8023 0055		5		1.80	bottom
SDK 10 ZS	8023 0056	2 changeover contacts	10		3.20	side
SDK 10 ZS U	8023 0057		10		3.20	bottom
SDK 01 ZS	8023 0058	2 changeover contacts	0.1		2.30	side
SDK 01 ZS U	8023 0059		0.1		2.30	bottom



Approaching angle: max 20°, approaching speed: max 1 m/s

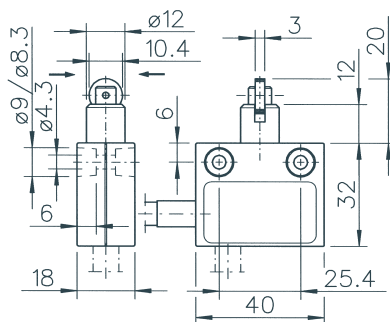
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDK 5 ZTS	8023 0066	2 changeover contacts	5		1.80	side
SDK 5 ZTS U	8023 0067		5		1.80	bottom
SDK 10 ZTS	8023 0068	2 changeover contacts	10		3.20	side
SDK 10 ZTS U	8023 0069		10		3.20	bottom
SDK 01 ZTS	8023 0070	2 changeover contacts	0.1		2.30	side
SDK 01 ZTS U	8023 0071		0.1		2.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDK 5 T26R	<b>8023 0078</b>	2 changeover contacts	5		1.80	side
SDK 5 T26R U	<b>8023 0079</b>		5		1.80	bottom
SDK 10 T26R	<b>8023 0080</b>	2 changeover contacts	10		3.20	side
SDK 10 T26R U	<b>8023 0081</b>		10		3.20	bottom
SDK 01 T26R	<b>8023 0082</b>	2 changeover contacts	0.1		2.30	side
SDK 01 T26R U	<b>8023 0083</b>		0.1		2.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s



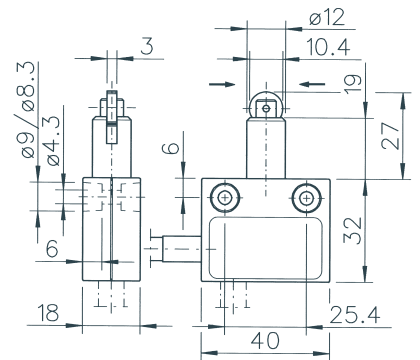
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDK 5 T26R90	<b>8023 0090</b>	2 changeover contacts	5		1.80	side
SDK 5 T26R90 U	<b>8023 0091</b>		5		1.80	bottom
SDK 10 T26R90	<b>8023 0092</b>	2 changeover contacts	10		3.20	side
SDK 10 T26R90 U	<b>8023 0093</b>		10		3.20	bottom
SDK 01 T26R90	<b>8023 0094</b>	2 changeover contacts	0.1		2.30	side
SDK 01 T26R90 U	<b>8023 0095</b>		0.1		2.30	bottom

# Sub-miniature switch SDK

## Type table for sub-miniature switch SDK, standard selection



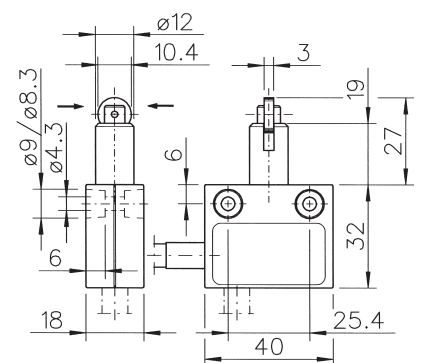
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDK 5 T33R	8023 0102	2 changeover contacts	5		1.80	side
SDK 5 T33R U	8023 0103		5		1.80	bottom
SDK 10 T33R	8023 0104	2 changeover contacts	10		3.20	side
SDK 10 T33R U	8023 0105		10		3.20	bottom
SDK 01 T33R	8023 0106	2 changeover contacts	0.1		2.30	side
SDK 01 T33R U	8023 0107		0.1		2.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDK 5 T33R90	8023 0114	2 changeover contacts	5		1.80	side
SDK 5 T33R90 U	8023 0115		5		1.80	bottom
SDK 10 T33R90 S	8023 0116	2 changeover contacts	10		3.20	side
SDK 10 T33R90 U	8023 0117		10		3.20	bottom
SDK 01 T33R90	8023 0118	2 changeover contacts	0.1		2.30	side
SDK 01 T33R90 U	8023 0119		0.1		2.30	bottom

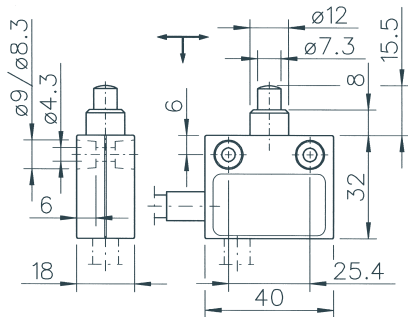


Approaching angle: max 30°, approaching speed: max 3 m/s





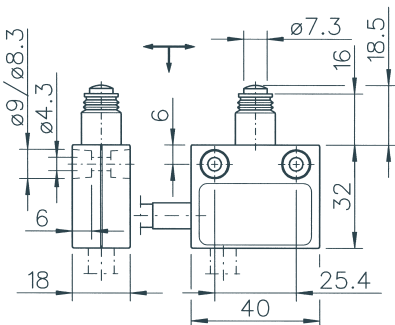




Approaching angle: max 20°, approaching speed: max 1 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 T21S	8023 0024	2 changeover contacts	5		1.80	side
SDM 5 T21S U	8023 0025	2 changeover contacts	5		1.80	bottom
SDM 10 T21S	8023 0026	2 changeover contacts	10		3.20	side
SDM 10 T21S U	8023 0027	2 changeover contacts	10		3.20	bottom
SDM 01 T21S	8023 0028	2 changeover contacts	0.1		2.30	side
SDM 01 T21S U	8023 0029	2 changeover contacts	0.1		2.30	bottom



Approaching angle: max 20°, approaching speed: max 1 m/s



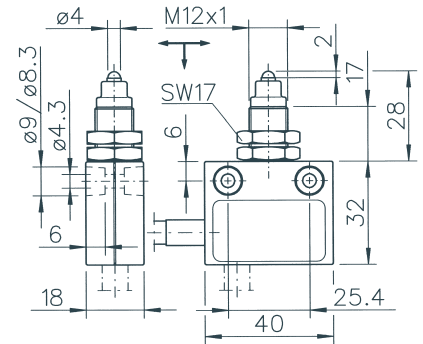
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 T24S	8023 0036	2 changeover contacts	5		2.30	side
SDM 5 T24S U	8023 0037	2 changeover contacts	5		2.30	bottom
SDM 10 T24S	8023 0038	2 changeover contacts	10		3.70	side
SDM 10 T24S U	8023 0039	2 changeover contacts	10		3.70	bottom
SDM 01 T24S	8023 0040	2 changeover contacts	0.1		2.80	side
SDM 01 T24S U	8023 0041	2 changeover contacts	0.1		2.80	bottom

# Sub-miniature switch SDM

## Type table for sub-miniature switch SDM, standard selection



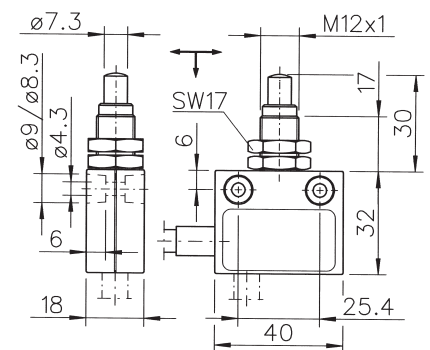
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 ZS	8023 0048	2 changeover contacts	5		1.80	side
SDM 5 ZS U	8023 0049		5		1.80	bottom
SDM 10 ZS	8023 0050	2 changeover contacts	10		3.20	side
SDM 10 ZS U	8023 0051		10		3.20	bottom
SDM 01 ZS	8023 0052	2 changeover contacts	0.1		2.30	side
SDM 01 ZS U	8023 0053		0.1		2.30	bottom



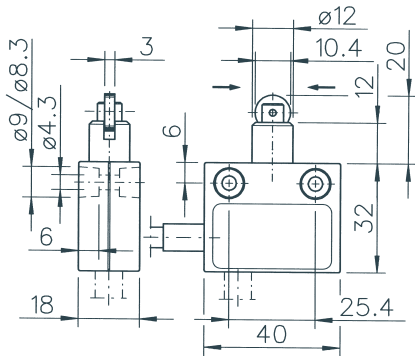
Approaching angle: max 20°, approaching speed: max 1 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 ZTS	8023 0060	2 changeover contacts	5		1.80	side
SDM 5 ZTS U	8023 0061		5		1.80	bottom
SDM 10 ZTS	8023 0062	2 changeover contacts	10		3.20	side
SDM 10 ZTS U	8023 0063		10		3.20	bottom
SDM 01 ZTS	8023 0064	2 changeover contacts	0.1		2.30	side
SDM 01 ZTS U	8023 0065		0.1		2.30	bottom



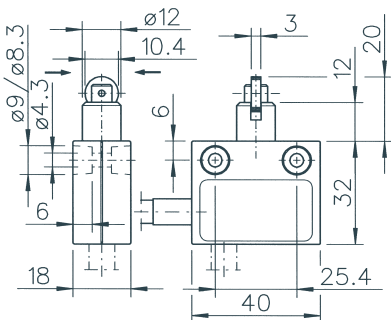
Approaching angle: max 20°, approaching speed: max 1 m/s



Approaching angle: max 30°, approaching speed: max 3 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 T26R	8023 0072	2 changeover contacts	5		1.80	side
SDM 5 T26R U	8023 0073		5		1.80	bottom
SDM 10 T26R	8023 0074	2 changeover contacts	10		3.20	side
SDM 10 T26R U	8023 0075		10		3.20	bottom
SDM 01 T26R	8023 0076	2 changeover contacts	0.1		2.30	side
SDM 01 T26R U	8023 0077		0.1		2.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s



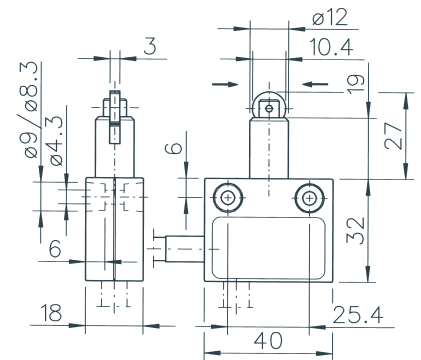
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 T26R90	8023 0084	2 changeover contacts	5		1.80	side
SDM 5 T26R90 U	8023 0085		5		1.80	bottom
SDM 10 T26R90	8023 0086	2 changeover contacts	10		3.20	side
SDM 10 T26R90 U	8023 0087		10		3.20	bottom
SDM 01 T26R90	8023 0088	2 changeover contacts	0.1		2.30	side
SDM 01 T26R90 U	8023 0089		0.1		2.30	bottom

# Sub-miniature switch SDM

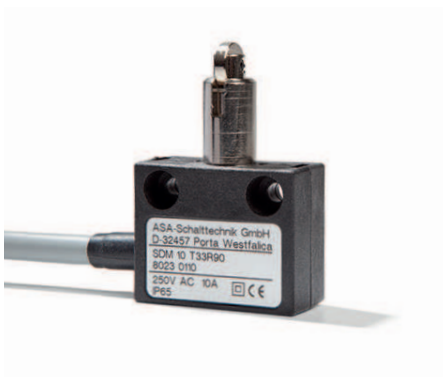
## Type table for sub-miniature switch SDM, standard selection



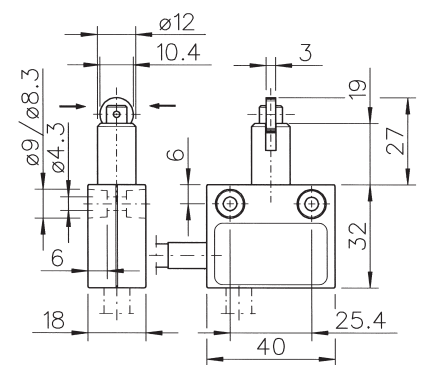
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 T33R	8023 0096	2 changeover contacts	5		1.80	side
SDM 5 T33R U	8023 0097	2 changeover contacts	5		1.80	bottom
SDM 10 T33R	8023 0098	2 changeover contacts	10		3.20	side
SDM 10 T33R U	8023 0099	2 changeover contacts	10		3.20	bottom
SDM 01 T33R	8023 0100	2 changeover contacts	0.1		2.30	side
SDM 01 T33R U	8023 0101	2 changeover contacts	0.1		2.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 T33R90	8023 0108	2 changeover contacts	5		1.80	side
SDM 5 T33R90 U	8023 0109	2 changeover contacts	5		1.80	bottom
SDM 10 T33R90 S	8023 0110	2 changeover contacts	10		3.20	side
SDM 10 T33R90 U	8023 0111	2 changeover contacts	10		3.20	bottom
SDM 01 T33R90	8023 0112	2 changeover contacts	0.1		2.30	side
SDM 01 T33R90 U	8023 0113	2 changeover contacts	0.1		2.30	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

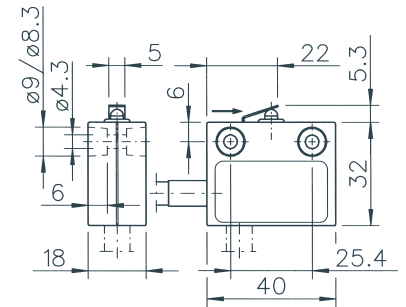


# Sub-miniature switch SDM

## Type table for sub-miniature switch SDM, standard selection



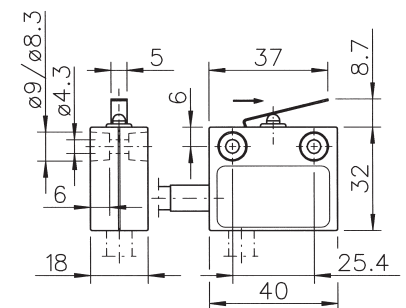
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 K12	8023 0144	2 changeover contacts	5		1.70	side
SDM 5 K12 U	8023 0145		5		1.70	bottom
SDM 10 K12	8023 0146	2 changeover contacts	10		3.00	side
SDM 10 K12 U	8023 0147		10		3.00	bottom
SDM 01 K12	8023 0148	2 changeover contacts	0.1		2.00	side
SDM 01 K12 U	8023 0149		0.1		2.00	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

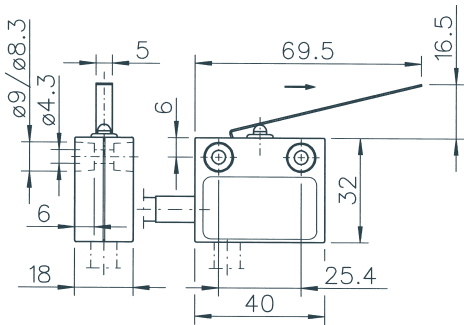


Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 K27	8023 0150	2 changeover contacts	5		0.80	side
SDM 5 K27 U	8023 0151		5		0.80	bottom
SDM 10 K27	8023 0152	2 changeover contacts	10		1.50	side
SDM 10 K27 U	8023 0153		10		1.50	bottom
SDM 01 K27	8023 0154	2 changeover contacts	0.1		1.00	side
SDM 01 K27 U	8023 0155		0.1		1.00	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

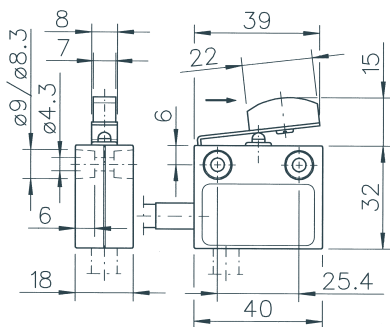




Approaching angle: max 30°, approaching speed: max 3 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 K60	8023 0156	2 changeover contacts	5		0.40	side
SDM 5 K60 U	8023 0157	2 changeover contacts	5		0.40	bottom
SDM 10 K60	8023 0158	2 changeover contacts	10		0.70	side
SDM 10 K60 U	8023 0159	2 changeover contacts	10		0.70	bottom
SDM 01 K60	8023 0160	2 changeover contacts	0.1		0.50	side
SDM 01 K60 U	8023 0161	2 changeover contacts	0.1		0.50	bottom



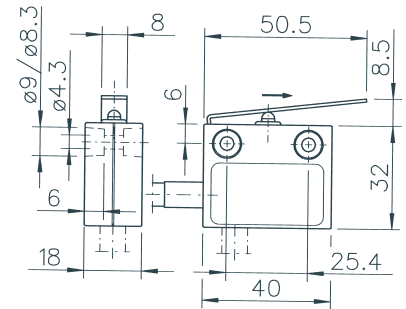
Approaching angle: max 30°, approaching speed: max 3 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 G38G	8023 0162	2 changeover contacts	5		1.20	side
SDM 5 G38G U	8023 0163	2 changeover contacts	5		1.20	bottom
SDM 10 G38G	8023 0164	2 changeover contacts	10		2.00	side
SDM 10 G38G U	8023 0165	2 changeover contacts	10		2.00	bottom
SDM 01 G38G	8023 0166	2 changeover contacts	0.1		1.50	side
SDM 01 G38G U	8023 0167	2 changeover contacts	0.1		1.50	bottom

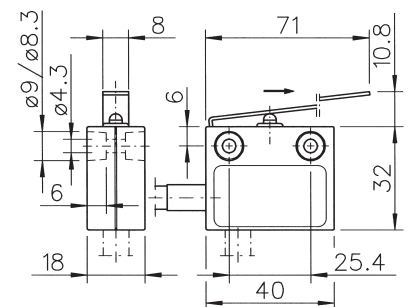
# Sub-miniature switch SDM

## Type table for sub-miniature switch SDM, standard selection



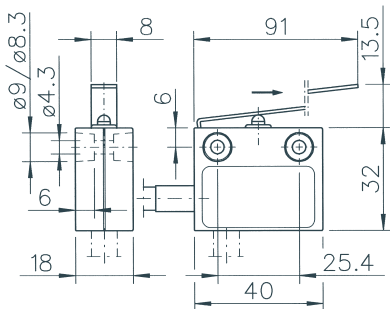
Approaching angle: max 30°, approaching speed: max 3 m/s

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 G50	8023 0168	2 changeover contacts	5		0.80	side
SDM 5 G50 U	8023 0169					bottom
SDM 10 G50	8023 0170	2 changeover contacts	10		1.50	side
SDM 10 G50 U	8023 0171					bottom
SDM 01 G50	8023 0172	2 changeover contacts	0.1		1.00	side
SDM 01 G50 U	8023 0173					bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

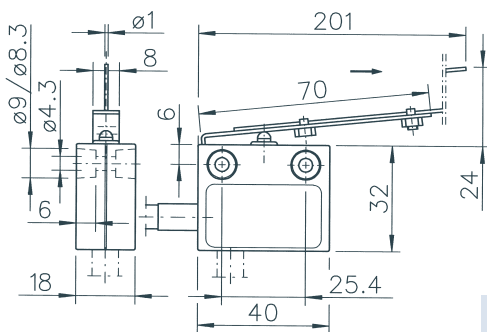
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 G70	8023 0174	2 changeover contacts	5		0.60	side
SDM 5 G70 U	8023 0175					bottom
SDM 10 G70	8023 0176	2 changeover contacts	10		1.10	side
SDM 10 G70 U	8023 0177					bottom
SDM 01 G70	8023 0178	2 changeover contacts	0.1		0.80	side
SDM 01 G70 U	8023 0179					bottom



Approaching angle: max 30°, approaching speed: max 3 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 G90	8023 0180	2 changeover contacts	5		0.40	side
SDM 5 G90 U	8023 0181	2 changeover contacts	5		0.40	bottom
SDM 10 G90	8023 0182	2 changeover contacts	10		0.70	side
SDM 10 G90 U	8023 0183	2 changeover contacts	10		0.70	bottom
SDM 01 G90	8023 0184	2 changeover contacts	0.1		0.50	side
SDM 01 G90 U	8023 0185	2 changeover contacts	0.1		0.50	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s



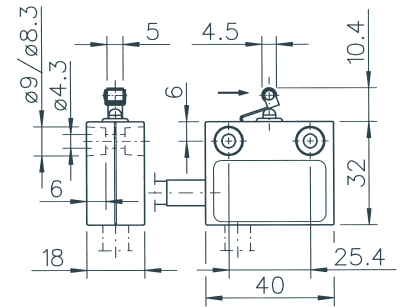
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 D200	8023 0186	2 changeover contacts	5		0.20	side
SDM 5 D200 U	8023 0187	2 changeover contacts	5		0.20	bottom
SDM 01 D200	8023 0188	2 changeover contacts	10		0.25	side
SDM 01 D200 U	8023 0189	2 changeover contacts	10		0.25	bottom

# Sub-miniature switch SDM

## Type table for sub-miniature switch SDM, standard selection



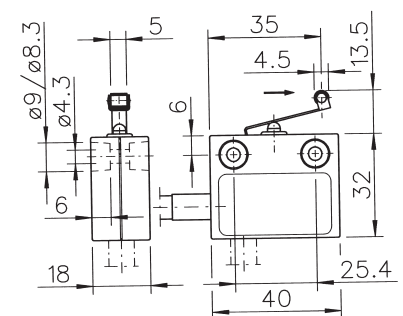
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 K12R	8023 0190	2 changeover contacts	5		1.70	side
SDM 5 K12R U	8023 0191		5		1.70	bottom
SDM 10 K12R	8023 0192	2 changeover contacts	10		3.00	side
SDM 10 K12RU	8023 0193		10		3.00	bottom
SDM 01 K12R	8023 0194	2 changeover contacts	0.1		2.00	side
SDM 01 K12R U	8023 0195		0.1		2.00	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 K27R	8023 0196	2 changeover contacts	5		0.80	side
SDM 5 K27R U	8023 0197		5		0.80	bottom
SDM 10 K27R	8023 0198	2 changeover contacts	10		1.50	side
SDM 10 K27RU	8023 0199		10		1.50	bottom
SDM 01 K27R	8023 0200	2 changeover contacts	0.1		1.00	side
SDM 01 K27R U	8023 0201		0.1		1.00	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s

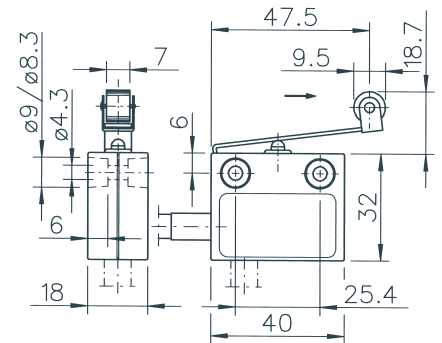


# Sub-miniature switch SDM

## Type table for sub-miniature switch SDM, standard selection



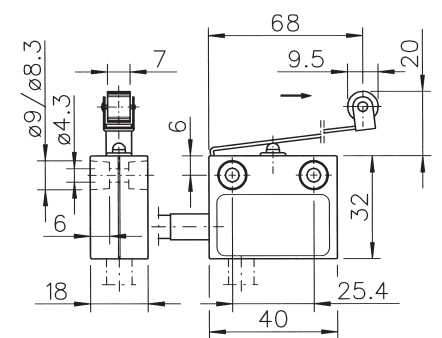
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 G50R	8023 0214	2 changeover contacts	5		0.80	side
SDM 5 G50R U	8023 0215		5		0.80	bottom
SDM 10 G50R	8023 0216	2 changeover contacts	10		1.50	side
SDM 10 G50R U	8023 0217		10		1.50	bottom
SDM 01 G50R	8023 0218	2 changeover contacts	0.1		1.00	side
SDM 01 G50R U	8023 0219		0.1		1.00	bottom



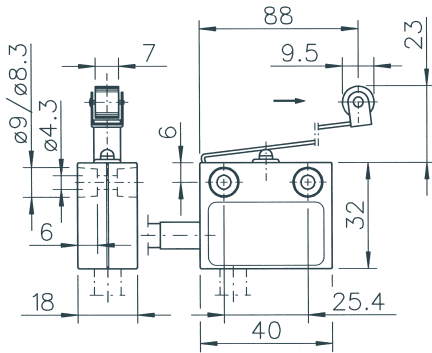
Approaching angle: max 30°, approaching speed: max 3 m/s



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 G70R	8023 0220	2 changeover contacts	5		0.60	side
SDM 5 G70R U	8023 0221		5		0.60	bottom
SDM 10 G70R	8023 0222	2 changeover contacts	10		1.10	side
SDM 10 G70R U	8023 0223		10		1.10	bottom
SDM 01 G70R	8023 0224	2 changeover contacts	0.1		0.80	side
SDM 01 G70R U	8023 0225		0.1		0.80	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s



Approaching angle: max 30°, approaching speed: max 3 m/s

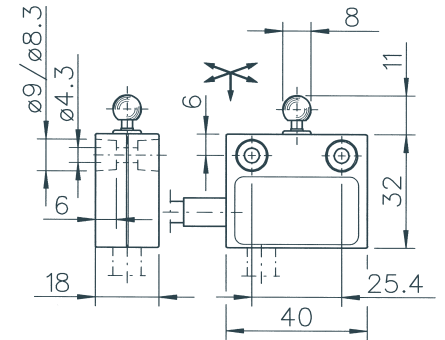
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 G90R	<b>8023 0226</b>	2 changeover contacts	5		0.40	side
SDM 5 G90R U	<b>8023 0227</b>		5		0.40	bottom
SDM 10 G90R	<b>8023 0228</b>	2 changeover contacts	10		0.70	side
SDM 10 G90R U	<b>8023 0229</b>		10		0.70	bottom
SDM 01 G90R	<b>8023 0230</b>	2 changeover contacts	0.1		0.50	side
SDM 01 G90R U	<b>8023 0231</b>		0.1		0.50	bottom

# Sub-miniature switch SDM

## Type table for sub-miniature switch SDM, standard selection



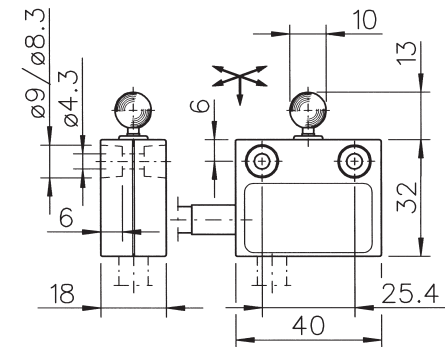
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 F1KI	8023 0232	2 changeover contacts	5		1.80	side
SDM 5 F1KI U	8023 0233		5		1.80	bottom
SDM 10 F1KI	8023 0234	2 changeover contacts	10		2.80	side
SDM 10 F1KI U	8023 0235		10		2.80	bottom
SDM 01 F1KI	8023 0236	2 changeover contacts	0.1		2.20	side
SDM 01 F1KI U	8023 0237		0.1		2.20	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s  
Operation possible from all sides

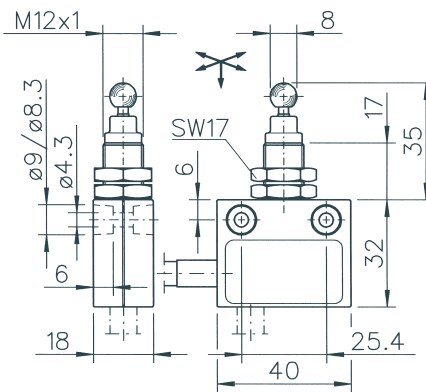


Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 F1Kg	8023 0238	2 changeover contacts	5		1.80	side
SDM 5 F1Kg U	8023 0239		5		1.80	bottom
SDM 10 F1Kg	8023 0240	2 changeover contacts	10		2.80	side
SDM 10 F1Kg U	8023 0241		10		2.80	bottom
SDM 01 F1Kg	8023 0242	2 changeover contacts	0.1		2.20	side
SDM 01 F1Kg U	8023 0243		0.1		2.20	bottom



Approaching angle: max 30°, approaching speed: max 3 m/s  
Operation possible from all sides

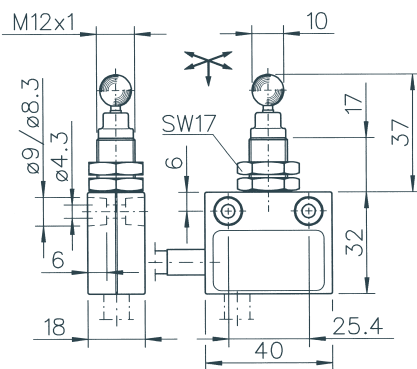




Approaching angle: max 30°, approaching speed: max 3 m/s  
Operation possible from all sides



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 ZF1KI	8023 0244	2 changeover contacts	5		1.80	side
SDM 5 ZF1KI U	8023 0245		5		1.80	bottom
SDM 10 ZF1KI	8023 0246	2 changeover contacts	10		2.80	side
SDM 10 ZF1KI U	8023 0247		10		2.80	bottom
SDM 01 ZF1KI	8023 0248	2 changeover contacts	0.1		2.20	side
SDM 01 ZF1KI U	8023 0249		0.1		2.20	bottom



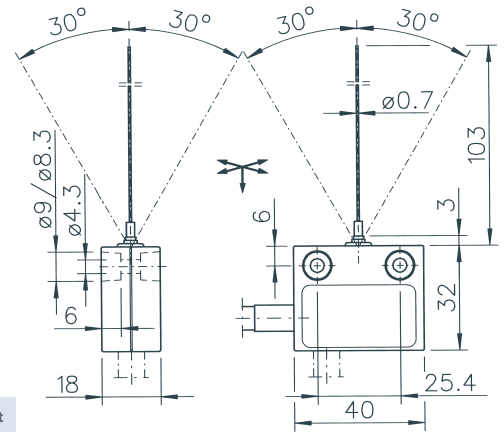
Approaching angle: max 30°, approaching speed: max 3 m/s  
Operation possible from all sides



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 ZF1Kg	8023 0250	2 changeover contacts	5		1.80	side
SDM 5 ZF1Kg U	8023 0251		5		1.80	bottom
SDM 10 ZF1Kg	8023 0252	2 changeover contacts	10		2.80	side
SDM 10 ZF1Kg U	8023 0253		10		2.80	bottom
SDM 01 ZF1Kg	8023 0254	2 changeover contacts	0.1		2.20	side
SDM 01 ZF1Kg U	8023 0255		0.1		2.20	bottom

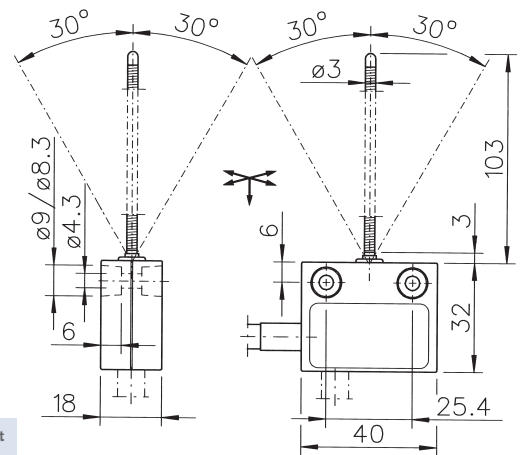
# Sub-miniature switch SDM

## Type table for sub-miniature switch SDM, standard selection



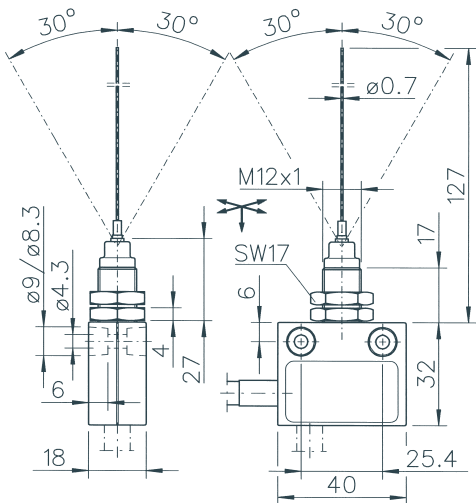
Operation possible from all sides

Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 F100D	8023 0000	2 changeover contacts	5		0.20	side
SDM 5 F100D U	8023 0001		5		0.20	bottom
SDM 10 F100F	8023 0002	2 changeover contacts	10		0.30	side
SDM 10 F100F U	8023 0003		10		0.30	bottom



Operation possible from all sides

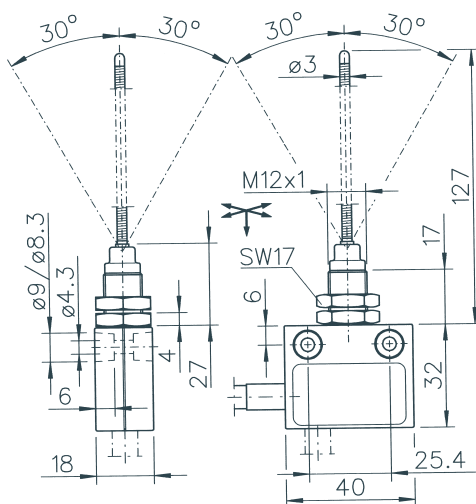
Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 F100F	8023 0260	2 changeover contacts	5		0.20	side
SDM 5 F100F U	8023 0261		5		0.20	bottom
SDM 10 F100F	8023 0262	2 changeover contacts	10		0.30	side
SDM 10 F100F U	8023 0263		10		0.30	bottom



Operation possible from all sides



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 ZF100D	8023 0264	2 changeover contacts	5		0.20	side
SDM 5 ZF100D U	8023 0265	2 changeover contacts	5		0.20	bottom
SDM 10 ZF100D	8023 0266	2 changeover contacts	10		0.30	side
SDM 10 ZF100D U	8023 0267	2 changeover contacts	10		0.30	bottom



Operation possible from all sides



Type	No.	Contact	Current capacity A	Wiring diagram	max. Switch B Force N	Cable outlet
SDM 5 ZF100F	8023 0268	2 changeover contacts	5		0.20	side
SDM 5 ZF100F U	8023 0269	2 changeover contacts	5		0.20	bottom
SDM 10 ZF100F	8023 0270	2 changeover contacts	10		0.30	side
SDM 10 ZF100F U	8023 0271	2 changeover contacts	10		0.30	bottom



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