TO 10 (1.5) A 250 V AC



PRODUCT FEATURES

- Small, efficient snap-action switches up to 10 (1.5) A 250 V AC or 10.1 A 125 - 250 V AC 1/4 HP
- Lateral approach from both directions possible due to mushroom-shaped actuator
- Large selection of auxiliary actuators of chromenickel steel and plastic

ON REQUEST

- Extended overtravel
- Material conformant with the filament wire test acc. to IEC 60335-1:2001 chap. 30
- ◆ Increased or reduced difference travel
- Other operating forces and ratings
- Gold-plated contacts

Design		DIN 41635 B								
Mechanical life	endurance	10E6 1E6 (versions with auxiliary actuator)								
Contact resistar	nce (new condition)	< 100 mOhm (1 A 12 V DC)								
Insulation resista	ance (new condition)	> 100 MOhm (500 V DC)								
Proof tracking		175 PTI								
Protection type		IP 40 (actuator side)								
Ambient temper	ature	-40 °C +100 °C								
Flammability		UL 94 V-2								
Glow wire test to	emperature	850 °C								
Material	actuator additional actuator housing terminals	PA PA glass fiber-reinforced / stainless steel spring steel PBTP tinned / silver plated / blank (product-dependent)								
Bounce time		< 5 ms								
Approval marks		② / 凡 / ③								

Suitable for appliances of protection class II under compliance with the installation conditions required on the equipment side





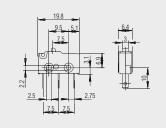


	10 (1.5) A 250 V AC 1E4	5 A 250 V AC 5E4	2 (0.5) A 250 V AC 25E3	10.1 A 125 - 250 V AC 1/4 HP	5 A 125 - 250 V AC 1/10 HP	2 A 125 - 250 V AC	Terminal type	Terminal description	Contact material	Operating force in N	Operating position (OP) in mm	Difference travel max. in mm	Free position (FP) max. in mm	Permissible total travel position (TP) in mm	Actuator description Lever drawing	Miscellaneous	Stock version
Normally closed	l cor	nta	ct ((SF	PNO	C)											Ī
1050.1142		•			•		J	2.8 x 0.5	Ag	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	0		
Normally open	cont	act	: (S	PΝ	10)												
1050.0122	Τ	•			•		I		Ag	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	۵		•
1050.1122		•			•			2.8 x 0.5	Ag	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	٥		•
1050.2122	Т	•			•	П	T	sealed	Ag	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	٥		Г
1050.1426							Ū	2.8 x 0.5	Ag	≤ 1.5	9.9 ±0.3	0.2	10.8	8.6	-	greater overtravel without approval mark	T
Changeover sw	itch	(SF	וסי	Γm	on	nen	tary)										Π
1050.0103	•			•		П	I		Ag	≤ 2.2	8.4 ±0.3	0.2	9.3	7.5	٥		•
1050.2403	•				•		Ţ	sealed	Ag	≤ 2.2	8.4 ±0.3	0.1	9.3	7	۵	greater overtravel	T
1050.0102	Т	•		Г	•	П	I	sealed	Ag	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	٥		•
1050.0202		•			•		I		Ag	≤ 1.5	9.9 ±0.3	0.2	10.8	9.1	-		•
1050.0802	Т	•			•	П	I		Ag	≤ 5	9.9 ±0.3	0.2	10.8	9.3		foam sealing ring around pushbutton	Т
1050.1102		•			•		Ū	2.8 x 0.5	Ag	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	۵	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•
1050.1202	Т	•			•	П	Ū	2.8 x 0.5	Ag	≤ 1.5	9.9 ±0.3	0.2	10.8	9.1	-		•
1050.2102		•			•		Ţ	sealed	Ag	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	۵		•
1050.2202	Т	•		Г	•	П	Ţ	sealed	Ag	≤ 1.5	9.9 ±0.3	0.2	10.8	9.1	-		•
1050.3102		•			•		J		Ag	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	۵	fixing pin	•
1050.4102	Т	•		Г	•	П	Ţ		Ag	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	0	fixing pin	•
1050.5202		•			•		I	sealed	Ag	≤ 0.5	11.1 ±1.5	1.0	15	7.4	L02		•
1050.5702	Т	•		Г	•	П	I	sealed	Ag	≤ 0.6	16.2 ±1.5	1.0	20	13	<u>@</u> L12		•
1050.6702		•			•			2.8 x 0.5	Ag	≤ 0.6	16.2 ±1.5	1.0	20	13	<u>@</u> L12		•
1050.7202		•			•		T	sealed	Ag	≤ 0.5	11.1 ±1.5	1.0	15	7.4	L02		•
1050.7702		•			•		Ţ	sealed	Ag	≤ 0.6	16.2 ±1.5	1.0	20	13	@ L12		
1050.0151			•			•	I	sealed	Au	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	0		•
1050.1151			•			•		2.8 x 0.5	Au	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	۵		•
1050.2151			•			•	Ţ	sealed	Au	≤ 1.5	8.4 ±0.3	0.2	9.3	7.5	0		•
1050.5251			•			•	I	sealed	Au	≤ 0.5	11.1 ±1.5	1.0	15	7.4	L02		
1050.5305	Т		•			•	I	sealed	Au	≤ 0.6	16.6+0.2	1.0	20	13 6	L43		١.

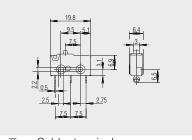
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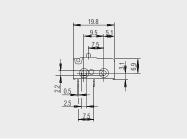
Terminal variants



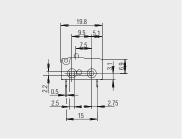
Quick-connect terminal 2.8 x 0.5



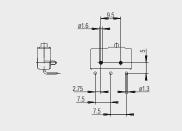
∏ Solder terminal



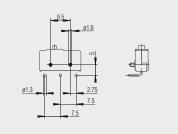
Solder terminal normally open contact version



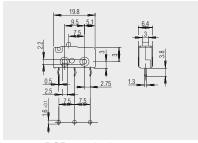
Solder terminal normally closed contact version



PCB terminal (cover side) right angled



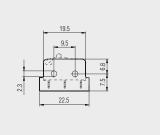
PCB terminal (base side) left angled



PCB terminal sealed



Additional parts



Insulating plate for solder terminal 0.5 mm: 231.005.021

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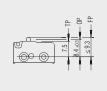
Mushroom-shaped actuator



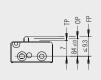
The mushroom-shaped actuator allows, in addition to the vertical actuation from above, lateral approach from any direction. In such application cases, an angle of $<45^{\circ}$ is necessary on the actuating element (angle for versions with extended overtravel on request). To keep the friction here to a minimum, we recommend the use of materials with a low friction coefficient in relation to the material PA. In addition, the surface of the actuating element should be free from valleys. The mechanical life endurance depends on the material and surface properties as well as on the form of the slide.



Switching positions



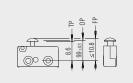
Standard actuator



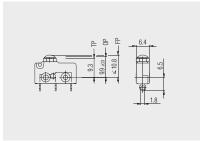
Standard actuator and extended overtravel



Mushroom-shaped actuator



Mushroom-shaped actuator and extended overtravel



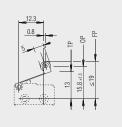
Mushroom-shaped actuator with foam sealing ring

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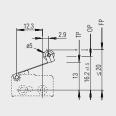


Auxiliary actuators

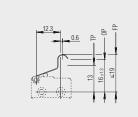
The auxiliary actuators are available as additional parts for later assembly or are already pre-assembled depending on the product. In the adjustable versions the operating position can be set application-specifically by the set screw.



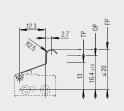
L11: roller ever 191.078.013



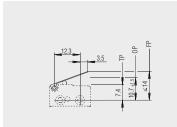
L12: roller lever 191.078.023



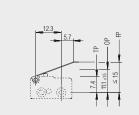
L21: simulated roller 191.071.041



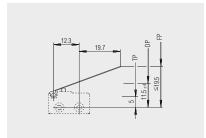
L22: simulated roller 191.071.051



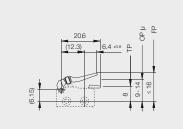
L01: straight lever 191.071.011



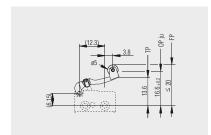
L02: straight lever 191.071.021



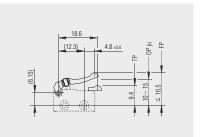
L03: straight lever 191.071.101



L41: adjustable plastic lever 190.075.013



L43: adjustable roller lever 190.072.013



L45: adjustable simulated roller 190.074.013