

Микропереключатели для работы при высоких температурах MF

Технические характеристики

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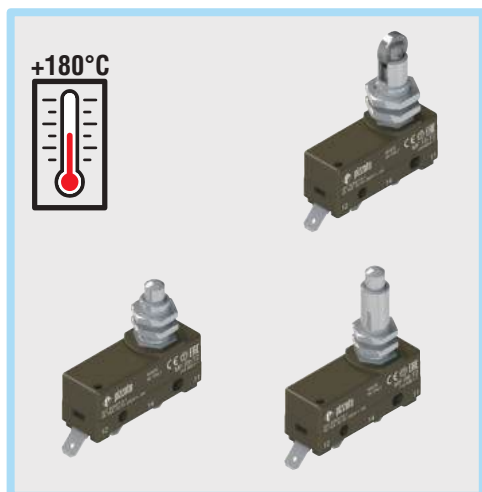
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Main features

- Operating temperature up to +180°C
- Technopolymer housing
- Protection degree IP20 or IP40
- 2 terminal types available
- 5 actuators available

Quality marks:



IMQ approval: CA02.05772
EAC approval: RU C-IT.YT03.B.00035/19

Technical data

Housing

Housing made of glass fibre reinforced technopolymer, self-extinguishing and shock-proof.
Protection degree acc. to EN 60529: IP00 (terminals)
IP40 (electrical contacts)

General data

Ambient temperature: -25°C ... +180°C
Max. operating frequency: 3600 operating cycles/hour
Mechanical endurance: 1 million operating cycles
Tightening torques for installation: see page 194

In compliance with standards:

IEC 60947-5-1, EN 60947-5-1, IEC 60528, EN 60529, EN IEC 63000.

Approvals:

EN 60947-5-1

Compliance with the requirements of:

Low Voltage Directive 2014/35/EU,
EMC Directive 2014/30/EU,
RoHS Directive 2011/65/EU.

⚠ If not expressly indicated in this chapter, for correct installation and utilization of all articles see the instructions given on pages 227 to 242.

Electrical data		Utilization category	
Ambient temperature +20 °C	Thermal current (I_{th}):	16 A	Alternating current: AC15 (50÷60 Hz)
	Rated insulation voltage (U_i):	250 Vac 300 Vdc	U_e (V) 250
	Rated impulse withstand voltage U_{imp} :	4 kV	I_e (A) 5
	Conditional short circuit current:	1000 A acc. to EN 60947-5-1	Direct current: DC13
	Protection against short circuits:	type gG fuse 16 A 250 V	U_e (V) 24 125 250
	Pollution degree:	3	I_e (A) 5 0.5 0.3
Dielectric strength:		2000 V~ between terminals and other metal parts to ground.	
Ambient temperature +180 °C	Thermal current (I_{th}):	12 A	Alternating current: AC15 (50÷60 Hz)
	Rated insulation voltage (U_i):	250 Vac 300 Vdc	U_e (V) 250
	Rated impulse withstand voltage U_{imp} :	4 kV	I_e (A) 5
	Conditional short circuit current:	1000 A acc. to EN 60947-5-1	Direct current: DC13
	Protection against short circuits:	type gG fuse 12 A 250 V	U_e (V) 24
	Pollution degree:	3	I_e (A) 3
Dielectric strength:		2000 V~ between terminals and other metal parts to ground.	

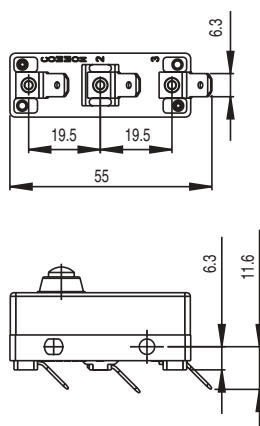
Features approved by IMQ

Rated insulation voltage (U_i): 250 Vac
Conventional free air thermal current (I_{th}): 12 A
Protection against short circuits: type gG fuse 12 A 250 V
Rated impulse withstand voltage (U_{imp}): 4 kV
Conditional short circuit current: 1000 A
MF, MS terminals
Pollution degree: 3
Utilization category: AC15
Operating voltage (U_e): 250 Vac (50 Hz)
Operating current (I_e): 5 A
Forms of the contact element: C

In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.

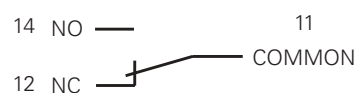
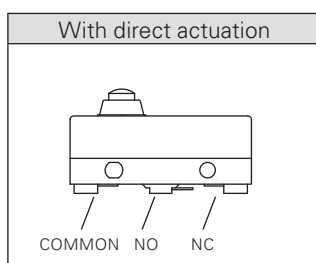
Please contact our technical department for the list of approved products.

Terminal dimensions



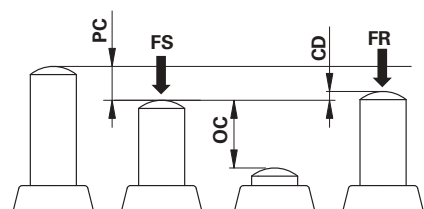
All values in the drawings are in mm

Circuit diagram



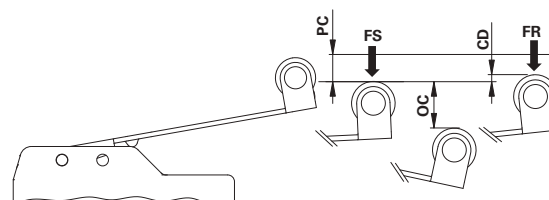
Change-over contact element with single interruption and three terminals.

Actuation forces and travels



PC pre-travel
 OC over-travel
 CD differential travel

FS Trigger force
 FR release force



Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

article
MF 08-T2

Terminal type

MF faston terminals

Ambient temperature

T2 -25°C ... +180°C

Actuator

08 threaded plunger M10 x 0.75

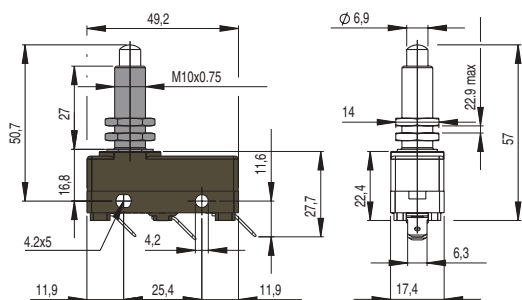
09 threaded plunger M10 x 0.75

10 threaded plunger M12 x 1

15 threaded plunger with roller

17 threaded plunger with transversal roller

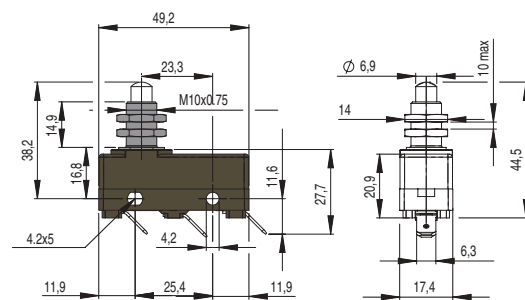
Microswitches with direct actuation



MF 08-T2

PC	0.5 mm	FS	3.9 N
OC	5.5 mm	FR	2.7 N
CD	0.05 mm		

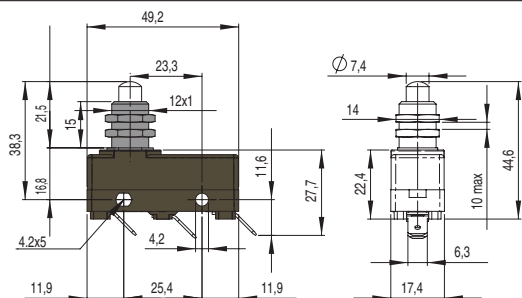
Maximum and minimum speed see page 240 - type 1



MF 09-T2

PC	0.5 mm	FS	3.9 N
OC	5.5 mm	FR	2.7 N
CD	0.05 mm		

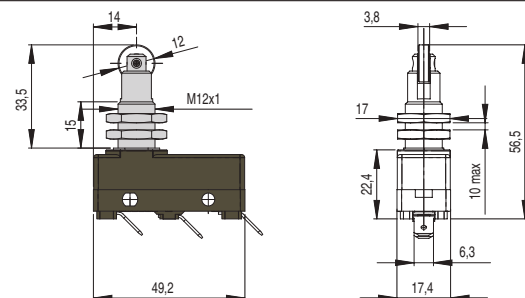
Maximum and minimum speed see page 240 - type 1



MF 10-T2

PC	0.5 mm	FS	3.9 N
OC	5.5 mm	FR	2.7 N
CD	0.05 mm		

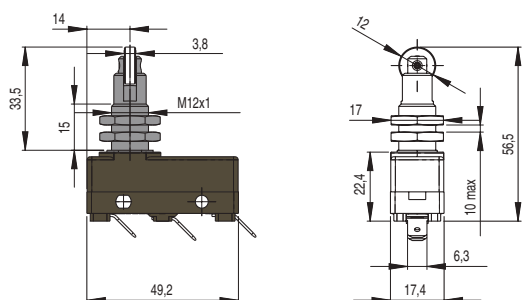
Maximum and minimum speed see page 240 - type 1



MF 15-T2

PC	0.5 mm	FS	3.9 N
OC	5.5 mm	FR	2.7 N
CD	0.05 mm		

Maximum and minimum speed see page 240 - type 2

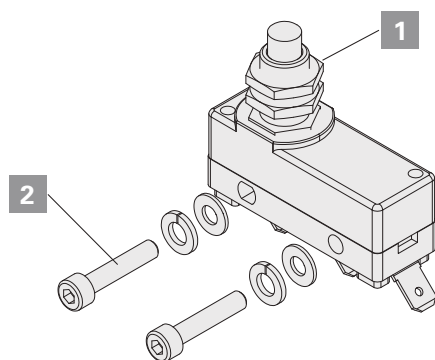


MF 17-T2

PC	0.5 mm	FS	3.9 N
OC	5.5 mm	FR	2.7 N
CD	0.05 mm		

Maximum and minimum speed see page 240 - type 2

Tightening torques



1 Head nuts

2 ... 3 Nm

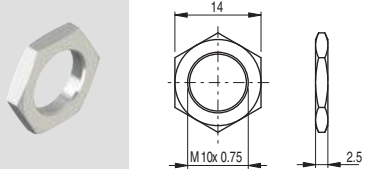
2 M4 fixing screws, body (insert a washer and a spring washer)

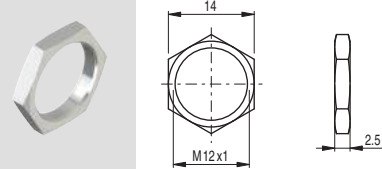
0.8 ... 1.2 Nm

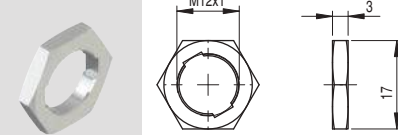
Attention: a tightening torque higher than 1.2 Nm can cause the breaking of the microswitch.

Accessories

Packs of 10 pcs.

	
Article	Description
VF AC83	Hex threaded nut for microswitches with actuators 08, 09

	
Article	Description
VF AC72	Hex threaded nut for microswitches with actuator 10

	
Article	Description
AC 35	Hex threaded nut, notched, for microswitches with actuators 15, 17

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