

Article: **FP 635-M2R5**  
Description: Position switch with adjustable roller lever

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#### Housing:

Made of glass-reinforced polymer, one threaded M20x1,5 conduit entry (FP series)  
Protection degree: IP67 acc. to EN 60529 with cable gland presenting same or higher protection degree

#### General data:

Ambient temperature: -25°C ... +80°C  
Max. actuation frequency: 3600 operating cycles/hour  
Mechanical endurance: 20 million operating cycles  
Safety parameter B10D: 40,000,000 for NC contacts  
Mechanical interlock, not coded: type 1 acc. to EN ISO 14119

#### Contact block characteristics:

Contact block	Contact diagram	Contact design	Operation type	Positive opening	Contact type	Wire cross-section min.	Wire cross-section max.	Wire stripping length	Captive screws	Terminals with finger protection
6	1NO+1NC	Zb	slow action	yes	Double interruption, twin bridge	1 x 0.5 mm <sup>2</sup> 1 x AWG 20	2 x 2.5 mm <sup>2</sup> 2 x AWG 14	8 mm	yes	yes

#### Contact block travel diagrams:



#### Positive switch opening:

Device with positive opening conforming to IEC 60947-5-1. Only with actuator fully extended to its maximum length.

#### Device screw tightening torques:

Cover screws: 0,8 ... 1,2 Nm  
Head screws: 0,8 ... 1,2 Nm  
Lever screws: 0,8 ... 1,2 Nm  
Contact blocks screws: 0,6 ... 0,8 Nm  
M5 fixing screws, body: 2 ... 3 Nm  
Protection caps:  
1,2 ... 1,6 Nm (M20/PG13,5)  
1 ... 1,4 Nm (M16/PG11)

#### Activating forces:

Min.: 0,01 Nm  
Positive opening: 0,25 Nm

#### In conformity with standards:

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, EN 50041, IEC 60204-1, EN 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, EN 60529, EN 50581, UL 508, CSA 22.2 No. 14.

#### Approvals:

IEC 60947-5-1, UL 508, CSA 22.2 No. 14, GB/T14048.5-2017.

#### In conformity with requirements requested by:

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

#### Markings and quality marks:



#### Electrical data:

Thermal current (Ith): 10 A  
Rated insulation voltage (Ui): 500 Vac 600 Vdc  
Rated impulse withstand voltage (Uimp): 6 kV  
Conditional short circuit current: 1000 A according to EN 60947-5-1  
Protection against short circuits: fuse 10 A 500 V type aM  
Pollution degree: 3

#### Utilization categories:

Alternate current: AC15 (50...60 Hz)  
Ue (V) 250 400 500  
Ie (A) 6 4 1  
Direct current: DC13  
Ue (V) 24 125 250  
Ie (A) 3 0.55 0.3