

Article: **MK V12D30**  
 Description: Microswitch with lever

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**Housing:**
**General data:**

 Ambient temperature: -25°C ... +85°C  
 Max. actuation frequency: 3600 operating cycles/hour  
 Mechanical endurance: 10 million operating cycles  
 Safety parameters:  
 B10d: 20,000,000 for NC contacts

**Contact block characteristics:**

Contacts with single interruption and double contacts.

**Positive switch opening:**

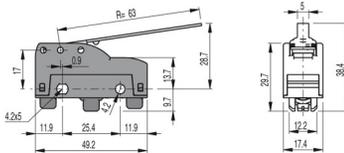
Device without positive opening. If installed individually, not suitable for safety applications.

**Travel diagram:**
**Cross section of the conductors (flexible copper wire):**

 min. 1 x 0,34 mm<sup>2</sup> (1 x AWG 22)  
 max. 2 x 1,5 mm<sup>2</sup> (2 x AWG 16)

- Closed contact
- Opened contact
- ⊕ Positive opening travel (IEC 60947-5-1)
- ⊖ Opening travel 2x2m (EN 81)
- R Reset device travel
- ▶ Pushing the switch
- ◀ Releasing the switch
- ⊙ Tripping mechanical point

**Device screw tightening torques:**

 Tighten the M4 screws with a torque of 0.8 ... 1.2 Nm, insert washer.  
 Attention: A tightening torque higher than 1.2 Nm can cause the breaking of the microswitch.  
 Tighten the terminal screws with a torque of 0.6 ... 0.8 Nm.

**In conformity with requirements requested by: Activating forces:**

|  |           |           |
|--|-----------|-----------|
| Low Voltage Directive 2014/35/EU                   | PC: 9mm   | FS: 0,65N |
| Electromagnetic Compatibility Directive 2014/30/EU | OC: 10mm  | FR: 0,5N  |
|  | CD: 1,1mm |           |

**In conformity with standards:**

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

**Approvals:**

UL 508, CSA 22.2 No. 14, EN60947-1, EN 60947-5-1

**Markings and quality marks:**

**Electrical data:**

 Thermal current (I<sub>th</sub>): 16 A  
 Rated insulation voltage (U<sub>i</sub>): 250 Vac 300 Vdc  
 Rated impulse withstand voltage (U<sub>imp</sub>): 4 kV  
 Conditional short circuit current: 1000 A acc. to EN 60947-5-1  
 Protection against short circuits: type gG fuse 16 A 250 V  
 Pollution degree: 3  
 Dielectric strength 2000 Vac/min.

**Utilization categories:**

|                                      |     |     |     |
|--------------------------------------|-----|-----|-----|
| Alternate current: AC15 (50...60 Hz) |     |     |     |
| U <sub>e</sub> (V)                   | 120 | 250 |     |
| I <sub>e</sub> (A)                   | 6   | 6   |     |
| Direct current: DC13                 |     |     |     |
| U <sub>e</sub> (V)                   | 24  | 125 | 250 |
| I <sub>e</sub> (A)                   | 5   | 0,6 | 0,3 |

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**Characteristics approved by IMQ**

 Rated insulation voltage (Ui): 250 Vac  
 Conventional free air thermal current (Ith): 16 A  
 Protection against short circuits: type gG fuse 16 A 250 V  
 Rated impulse withstand voltage (Uimp): 4 kV  
 Conditional short circuit current: 1000 A  
 Protection degree of the housing: IP00  
 Terminals: screw terminals/faston  
 Pollution degree: 3  
 Utilization category: AC15  
 Operating voltage (Ue): 250 Vac (50 Hz)  
 Operating current (Ie): 5 A  
 Forms of the contact element: X; Y; C  
 Positive opening of contacts on contact blocks: 1, 3

**Characteristics approved by UL**

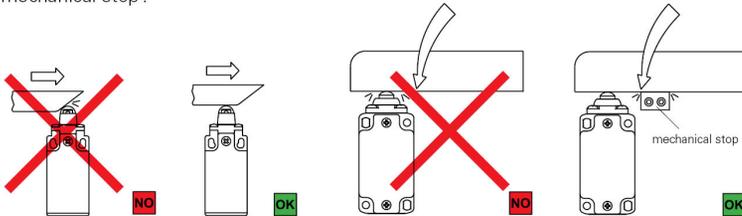
 Utilization categories Q300 (69 VA, 125-250 Vdc)  
 A300 (720 VA, 120 ... 300 Vac)

In conformity with standard: UL 508, CSA 22.2 No.14

In conformity with standards: EN 60947-1, EN 60947-5-1+ A1:2009, fundamental requirements of the Low Voltage Directive 2006/95/EC.

**Mechanical stop**

Acc. to EN ISO 14119 paragraph 5.2 "the position sensors must not be used as mechanical stop".

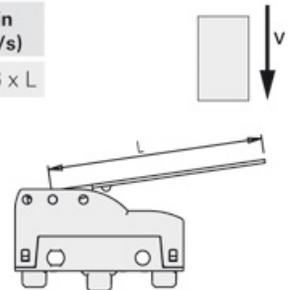


The actuator must not exceed the max. travel as indicated in the travel diagrams.

The guard must not use the switch head as a mechanical stop.

**Lever with direct action (D) - Type 3**

| Vmax (m/s) | Vmin (mm/s) |
|------------|-------------|
| 0,03 x L   | 0,0166 x L  |





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