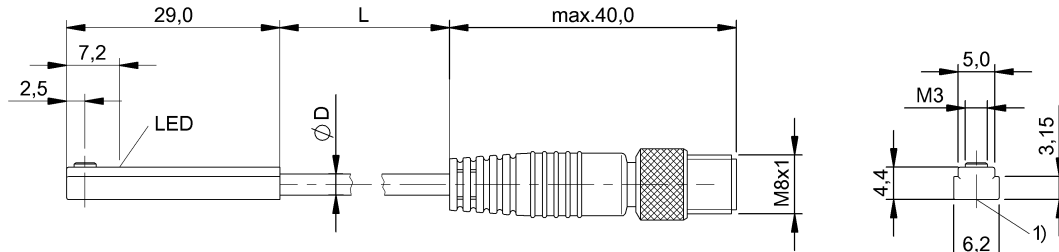


## BMF 307K-PS-C-2-SA2-S49-00,6 BMF008L



1) Sensing surface



### Display/Operation

Function indicator yes

### Electrical connection

Cable diameter D 3.10 mm  
 Cable length 0.6 m  
 Connection M8x1-Connector, 3-pole  
 Connection type Cable with connector, 0.60 m, PUR  
 Polarity reversal protected yes  
 Short-circuit protection yes

### Electrical data

Assured switching field strength Ha 2 kA/m  
 Hysteresis H max. (% of Hn) 45 %  
 Load capacitance max. at Ue 1 µF  
 MTTF (40 °C) 330 a  
 No-load current I<sub>o</sub> max., undamped 10 mA  
 Operating voltage U<sub>b</sub> 10...30 VDC  
 Output resistance R<sub>a</sub> Open drain  
 Pollution degree 3  
 Protected against miswiring yes  
 Rated insulation voltage U<sub>i</sub> 75 V DC  
 Rated operating current I<sub>e</sub> DC 200 mA  
 Rated operating voltage U<sub>e</sub> DC 24 V  
 Rated short circuit current 100 A  
 Rated switch field strength H<sub>n</sub> 1.2 kA/m  
 Residual current I<sub>r</sub> max. 80 µA  
 Switching frequency 10000 Hz  
 Turn-off delay t<sub>off</sub> max. 0.05 ms  
 Turn-on delay t<sub>on</sub> max. 0.05 ms

Utilization category DC -13  
 Voltage drop static max. 3.1 V

### Environmental conditions

Ambient temperature -25...85 °C  
 Protection type IEC 60529 IP67

### Functional safety

Diagnostic coverage 0 %  
 Functional safety no  
 Mission Time 20 a

### General data

Approval/Conformity CE  
cULus  
 Basic standard IEC 60947-5-2  
 Scope of delivery Offset screwdriver DIN 911 size 1.5

### Material

Housing material LCP  
 Material jacket PUR  
 Material sensing surface LCP

### Mechanical data

Dimension 29 x 6.2 x 4.4 mm  
 Tightening torque 0.1 Nm

## BMF 307K-PS-C-2-SA2-S49-00,6 BMF008L

### Output/Interface

Switching output PNP Normally open (NO)

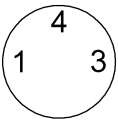
### Range/Distance

Ripple max. (% of Ue) 15 %  
Temp. drift max. (% of Hn) 0.3 %

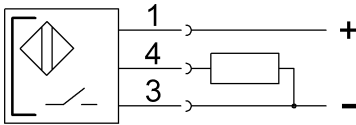
### Remarks

The sensor is functional again after the overload has been eliminated.  
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.  
Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

### Connector view



### Wiring Diagram



### Diagram

