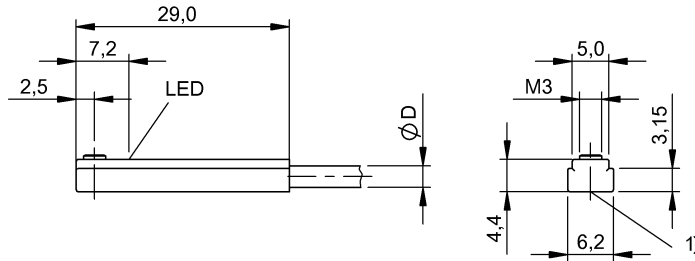


BMF 307K-PO-C-2-PU-02 BMF006M



1) Sensing surface



Display/Operation

Function indicator yes

Electrical connection

Cable diameter D 2.90 mm
 Cable length 2 m
 Conductor cross-section 0.14 mm²
 Connection type Cable, 2.00 m, PUR
 Number of conductors 3
 Polarity reversal protected yes
 Short-circuit protection yes

Electrical data

Assured switching field strength Ha 2 kA/m
 Load capacitance max. at Ue 1 µF
 MTTF (40 °C) 330 a
 No-load current I_o max., undamped 15 mA
 Operating voltage U_b 10...30 VDC
 Output resistance R_a Open drain
 Pollution degree 3
 Protected against miswiring yes
 Rated insulation voltage U_i 75 V DC
 Rated operating current I_e DC 200 mA
 Rated operating voltage U_e DC 24 V
 Rated short circuit current 100 A
 Rated switch field strength H_n 1.2 kA/m
 Residual current I_r max. 80 µA
 Switching frequency 10000 Hz
 Turn-off delay t_{off} max. 0.05 ms
 Turn-on delay t_{on} 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

Output/Interface

Switching output PNP Normally closed (NC)

BMF 307K-PO-C-2-PU-02 BMF006M

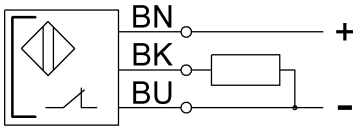
Range/Distance

Ripple max. (% of Ue) 15 %

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.

Wiring Diagram



Diagram

