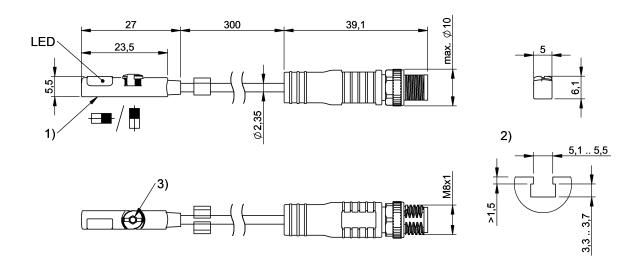
BMF 235K-HMPS-C-3-P0-S49-00,3

Order Code: BMF00PM

BVLLUFF



1) Sensing surface, 2) see remarks, 3) see remarks









Basic features

Application Pneumatic cylinder with T-slot. For dimensions, see sketch in product view Approval/Conformity cULus CE UKCA WFFF Basic standard IEC 60947-5-2 Principle of operation Magnetic field sensor Cable clip for T-slot Scope of delivery Trademark Global

Display/Operation

Function indicator Active, LED yellow

Electrical connection

Cable TPU, 0.3 m Cable diameter D 2.35 mm Connection M8x1-Male, 3-pin Polarity reversal protected ves Protection against device mix-ups yes Short-circuit protection yes

Electrical data

Assured switching field strength Ha 4 kA/m Load capacitance max. at Ue 0.35 µF No-load current lo max., undamped 10 mA Operating voltage Ub 10...30 VDC Output resistance Ra Open drain Rated insulation voltage Ui 75 V DC Rated operating current le 90 mA 24 V Rated operating voltage Ue DC Rated short circuit current 100 A Rated switch field strength Hn 3.5 kA/m Residual current Ir max. 200 μΑ Ripple max. (% of Ue) 15% Switching frequency 3000 Hz Turn-off delay toff max. $0.1 \, \text{ms}$ Turn-on delay ton max. 0.1 ms Utilization category DC -13 Voltage drop static max. 1.5 V

Environmental conditions

-25...85 °C Ambient temperature 85 °C UL: max. +70 °C Ambient temperature max. Contamination scale EN 60068-2-27, Shock Half-sinus, 30 g_n, 11 ms EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min **ESD** 3A(8KV) Group 1, Class B Emission IP67 IP rating

Magnetic Sensors

BMF 235K-HMPS-C-3-P0-S49-00,3 Order Code: BMF00PM



can be installed in T-slot from

above

0.4 Nm

Functional safety Material MTTF (40 °C) 1422.7 a Housing material PA 12 TPU Material jacket Material sensing surface PU Interface Switching output PNP normally open (NO) Mechanical data Dimension 23.5 x 5 x 5.5 mm

Mounting part

Tightening torque

Remarks

Damping magnet axially and radially magnetized

Effective operating current le with thermally coupled installation in metal.

- 2) Application area: pneumatic cylinder with t-slot. For dimensions, see sketch in product view.
- 4) Allen wrench 2.0 mm: max. tightening torque 0.4 Nm. Screw driver 4x0.8 mm: max. tightening torque 1 Nm

UL-MARKINGS: - For use in NFPA 79 Applications only - Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers information.

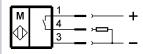
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams (Schematic)



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