Magnetic Sensors
BMF 235K-PS-C-2A-SA2-S49-00,3
Order Code: BMF00C4

1) Sensing surface, 2) see remarks, 3) see remarks, 4) see remarks

Display/Operation

Function indicator: yes

Electrical connection

Cable diameter D: 2.50 mm
Cable length L: 0.3 m
Connection: M8x1 connector, 3-pin
Connection type: Cable with connector, 0.30 m, PUR
Polarity reversal protected: yes
Protection against device mix-ups: no
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
No-load current Io max., undamped: 3 mA
Operating voltage Ub: 10...30 VDC
Output resistance Ra: Open drain
Rated insulation voltage Ui: 75 V DC
Rated operating current Ie: 200 mA
Rated operating voltage Ue DC: 24 V
Rated short circuit current: 100 A
Rated switch field strength Hn: 1.2 kA/m
Residual current Ir max.: 80 µA
Ripple max. (% of Ue): 15%
Switching frequency: 3000 Hz
Turn-off delay toff max.: 0.1 ms
Turn-on delay ton max.: 0.1 ms
Utilization category: DC -13
Voltage drop static max.: 2.5 V

Environmental conditions

Ambient temperature: -25...85 °C
Contamination scale: 3
IP rating: IP67

Functional safety

MTTF (40 °C): 355 a
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General data

Application
Pneumatic cylinder with T-slot.
For dimensions, see sketch in product view.

Approval/Conformity
- cULus
- CE
- WEEE

Basic standard
IEC 60947-5-2

Scope of delivery
- Cable clip for T-slot

Trademark
Global

Material

Housing material
PA 12

Material jacket
PUR

Material sensing surface
PU

Remarks
3) Damping magnet axially magnetized
Effective operating current Ie 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
For further information about the 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.

Mechanical data

Dimension
23.5 x 5 x 5.5 mm

Mounting
can be installed in T-slot from above

Tightening torque
0.4 Nm

Output/Interface

Switching output
PNP normally open (NO)

Range/Distance

Temp. drift max. (% of Hn)
0.3 %

Connector Drawings

Wiring Diagrams