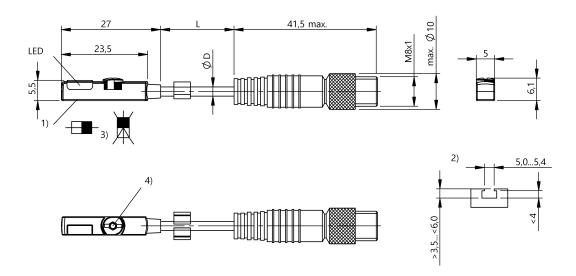
Magnetic Sensors BMF 235K-PS-C-2A-SA2-S49-00,3 Order Code: BMF00C4

BALLUFF



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



Basic features

Approval/Conformity

Basic standard Principle of operation Scope of delivery Trademark

Application

Pneumatic cylinder with T-slot.
For dimensions, see sketch in
product view.
cULus
CE
UKCA
WEEE
IEC 60947-5-2
Magnetic field sensor
Cable clip for T-slot
Global

yes

Display/Operation

Function indicator

Electrical connection

Cable	PUR, 0.3 m
Cable diameter D	2.50 mm
Connection	M8x1-Male, 3-pin
Polarity reversal protected	no
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 lo max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open drain
Rated insulation voltage Ui	75 V DC
Rated operating current le	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	-2585 °C
Contamination scale	3
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)
Emission	Group 1, Class B
IP rating	IP67

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



Functional safety		Mechanical data		
MTTF (40 °C)	355 a	Dimension	23.5 x 5 x 5.5 mm	
		Mounting part	can be installed in T-slot from	
Interface			above	
Switching output	PNP normally open (NO)	Tightening torque	0.4 Nm	
Material		Range/Distance		
ויומנכוומו		Temp. drift max. (% of Hn)	0.3 %	
Housing material	PA 12			
Material jacket	PUR			
Material sensing surface	PU			

Remarks

Damping magnet axially 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

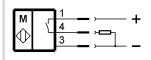
UL-MARKINGS: - For use in NFPA 79 Applications only - Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers information.

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)



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



Help Views

