

1) Active surface 2) See remarks 3) See remarks 4) See remarks

- Magnetic field sensor
- Normally open (NO)
- miniature



General attributes

Approvals / Conformity	cULus CE
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Function indicator	yes
Polarity reversal protected	yes
Scope of delivery	Cable clip for T-slot
Short circuit protected	yes
Trademark	GLOBAL

Electrical attributes

Assured switching field strength	2.0 kA/m
Connection type	Cable with connector
Eff. operating current I _e	200 mA
Eff. operating voltage U _e DC	24.0 V
Electrical version	DC, direct current
Hysteresis H max. (in % of H _n)	45 %
Load capacitance max. (at U _e)	1.00 µF
Max. no-load cur. I _o undamped	3.0 mA
No-load current I _o damped max.	6.0 mA
Operating voltage U _B max. DC [V]	30.0 V
Operating voltage U _B min. DC [V]	10.0 V
Rated insulation voltage U _i	75 DC
Rated short circuit current	100 A
Rated switching field strength	1.2 kA/m
Ripple max. (% of U _e)	15 %
Switching freq. f max. (at U _e)	3000 Hz
Switching function	Normally open (NO)

Switching output	PNP
Turn on time t _{on} max.	0.10 ms
Voltage drop static max.	2.5 V

Mechanical attributes

Ambient temperature T _a max.	85 °C
Ambient temperature T _a min.	-25 °C
Cable diameter D max.	2.5 mm
Cable jacket material	PUR
Cable length	0.30 m
Connector type	M08x1-S49
Depth	5.50 mm
Height (small side)	5.00 mm
Housing material	PA 12
Sensing face material	PU
Temperature drift max. % of H _n	0.3 %
Tightening torque	0.4 Nm
Width (long side)	23.5 mm

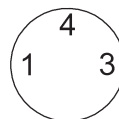
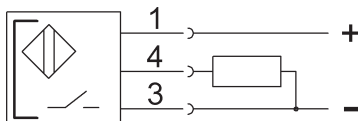
Additional text

- 3) Damping magnet, axially magnetized
- Rated operating current I_e for thermally coupled installation in metal.
- 2) Application area: pneumatic cylinder with t-slot. For dimensions, see

sketch in product view.

4) Hex key size 2.0 mm: Max. tightening torque 0.4 Nm.

Screwdriver 4x0.8 mm: Max. tightening torque 1 Nm



Magnetic field sensor

BMF 235K-PS-C-2A-SA2-S49-00,3
BMF00C4

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