

1) Active surface

- Magnetic field sensor
- Normally open (NO)



**General attributes**

Approvals / Conformity	CE
Basic standard	cULus
Enclosure Type per IEC 60529	IEC 60947-5-2
Function indicator	IP67
Polarity reversal protected	yes
Scope of delivery	yes
Short circuit protected	Angled screwdriver DIN 911 Size 1.5
MTTF (40°C)	yes
	330 a

**Electrical attributes**

Assured switching field strength	2.0 kA/m
Connection type	Cable with connector
Eff. operating current I <sub>e</sub>	200 mA
Eff. operating voltage U <sub>e</sub> DC	24.0 V
Electrical version	DC, direct current
Hysteresis H max. (in % of H <sub>n</sub> )	45 %
Load capacitance max. (at U <sub>e</sub> )	1.00 µF
Max. no-load cur. I <sub>o</sub> undamped	10.0 mA
No-load current I <sub>o</sub> damped max.	15.0 mA
Operating voltage U <sub>B</sub> max. DC [V]	30.0 V
Operating voltage U <sub>B</sub> min. DC [V]	10.0 V
Rated insulation voltage U <sub>i</sub>	75 DC
Rated short circuit current	100 A
Rated switching field strength	1.2 kA/m
Ripple max. (% of U <sub>e</sub> )	15 %
Switching freq. f max. (at U <sub>e</sub> )	10000 Hz

Switching function	Normally open (NO)
Switching output	PNP
Turn on time t <sub>on</sub> max.	0.05 ms
Voltage drop static max.	3.1 V

**Mechanical attributes**

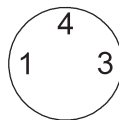
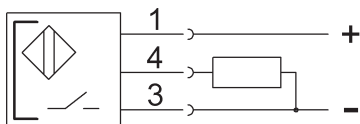
Ambient temperature T <sub>a</sub> max.	85 °C
Ambient temperature T <sub>a</sub> min.	-25 °C
Cable diameter D max.	2.9 mm
Cable jacket material	PUR
Cable length	0.20 m
Connector type	M08x1-S49
Depth	4.40 mm
Height (small side)	6.20 mm
Housing material	LCP
Sensing face material	LCP
Temperature drift max. % of H <sub>n</sub>	0.3 %
Tightening torque	0.1 Nm
Width (long side)	29.0 mm

**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.



Magnetic field sensor

**BMF 307K-PS-C-2-S49-00,2**  
**BMF0070**

**BALLUFF**

