

- Magnetic field sensor
- Normally open (NO)



**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
Short circuit protected	yes
<b>Electrical attributes</b>	
Assured switching field strength	2.0 kA/m
Connection type	Cable
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
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)

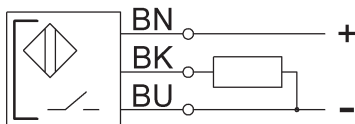
Switching output	PNP
Turn on time t <sub>on</sub> max.	0.05 ms
Voltage drop static max.	3.1 V

**Mechanical attributes**

Ambient temperature T <sub>a</sub> max.	85 °C
Ambient temperature T <sub>a</sub> min.	-25 °C
Cable diameter D max.	3.1 mm
Cable jacket material	PUR
Cable length	3.00 m
Conductor cross-section	0.14 mm <sup>2</sup>
Depth	30.50 mm
Diameter d1	M08x1.0
Housing material	CuZn
Mounting length	30.5 mm
Number of conductors	3
Sensing face material	PBTB
Surface protection	Nickel-plated
Tightening torque	3 Nm / 6 Nm

**Additional text**

EMC: Surge immunity; external protection circuit required. Document 825345, Section 2.  
The switching distance depends on the magnet used. Switching distances of > 20 mm can be achieved.  
The sensor is functional again after the overload has been eliminated.



Magnetic field sensor

**BMF 08M-PS-C-2-KPU-03**  
**BMF000R**

**BALLUFF**  
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