

1) Active surface

- Magnetic field sensor
- Normally open (NO)



General attributes

Approvals / Conformity	CE
	cULus
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Function indicator	yes
Not incl. in scope of delivery	Mount.clamp, e.g. BMF305-HW-17
Polarity reversal protected	yes
Short circuit protected	yes

Electrical attributes

Assured switching field streng	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	10.0 mA
No-load current I _o damped max.	15.0 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

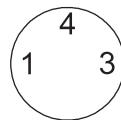
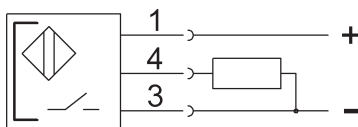
Rated switching field strength	1.2 kA/m
Ripple max. (% of U _e)	15 %
Switching freq. f max. (at U _e)	10000 Hz
Switching function	Normally open (NO)
Switching output	PNP
Turn on time t _{on} max.	0.05 ms
Voltage drop static max.	3.1 V

Mechanical attributes

Ambient temperature T _a max.	85 °C
Ambient temperature T _a min.	-25 °C
Cable diameter D max.	2.9 mm
Cable jacket material	PUR
Cable length	0.20 m
Connector type	M08x1-S49
Depth	9.10 mm
Height (small side)	5.00 mm
Housing material	LCP
Sensing face material	PU
Temperature drift max. % of H _n	0.3 %
Width (long side)	33.5 mm

Additional text

The sensor is functional again after the overload has been eliminated.



Magnetic field sensor

BMF 305K-PS-C-2-S49-00,2
BMF005H

