



1) Active surface

- 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
Not incl. in scope of delivery	Mount.clamp, e.g. BMF305-HW-28
Polarity reversal protected	yes
Short circuit protected	yes

Electrical attributes

Assured switching field strength	2.0 kA/m
Connection type	Cable
Eff. operating current I _e	100 mA
Eff. operating voltage U _e DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at U _e)	1.00 µF
Max. no-load cur. I _o undamped	8.0 mA
No-load current I _o damped max.	12.0 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.	2.0 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	3.00 m
Conductor cross-section	0.10 mm ²
Depth	4.50 mm
Height (small side)	3.00 mm
Housing material	LCP
Number of conductors	3
Sensing face material	LCP
Width (long side)	25.5 mm

Additional text

Max. pull force on cable 10 N.
The sensor is functional again after the overload has been eliminated.
EMC: Surge immunity; external protection circuit required. Document 825345, Section 2.

