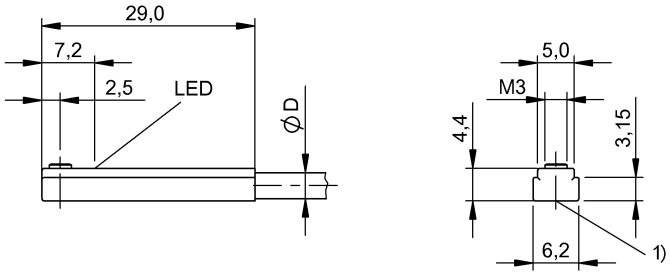
Magnetic Sensors

BMF 307K-R-AS-L-3-03
Order Code: BMF008P



1) Sensing surface

Basic features

Approval/Conformity	CE WEEE EAC
Principle of operation	Reed switch (2-wire)
Scope of delivery	Offset screwdriver DIN 911 size 1.5

Display/Operation

Function indicator	yes

Electrical connection

Cable	PVC, 3 m
Cable diameter D	3.50 mm
Conductor cross-section	0.14 mm²
Number of conductors	2
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	no

Electrical data

Load capacitance max. at Ue	0.5 µF
Operating voltage Ub	4...30 VDC/4...30 VAC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	128 mA
Rated operating voltage Ue AC	24 V
Rated operating voltage Ue DC	24 V
Switching frequency	1000 Hz
Turn-off delay toff max.	0.2 ms
Turn-on delay ton max.	0.7 ms
Utilization category	AC-12 DC -12
Voltage drop static max.	4 V

Environmental conditions

Ambient temperature	-20...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g_n, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
ESD	4A(15kV)
Emission	Group 1, Class A
IP rating	IP65

Functional safety

MTTF (40 °C)	17 a

Interface

Switching output	polarized normally open (NO)

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Material

Housing material	LCP
Material jacket	PVC
Material sensing surface	LCP

Mechanical data

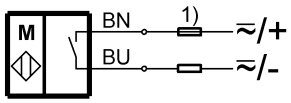
Dimension	29 x 6.2 x 4.4 mm
Tightening torque	0.1 Nm

Remarks

Recommendation: After a short circuit check the device for proper function.
Life expectancy of the reed relay is 500000 switching cycles at 24V/10mA
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams



1) For SCP see electrical data