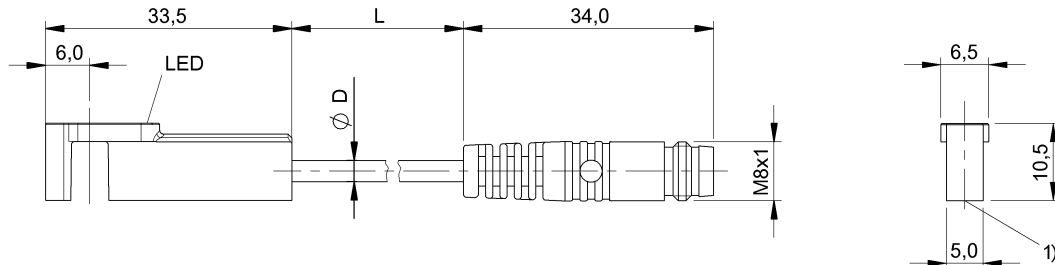


BMF 305K-PO-C-2-S49-00,2 BMF0054



1) Sensing surface



Display/Operation

Function indicator	yes
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Electrical connection

Cable diameter D	2.90 mm
Cable length	0.2 m
Connection	M8x1-Connector, 3-pole
Connection type	Cable with connector, 0.20 m, PUR
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Assured switching field strength H_a	2 kA/m
Hysteresis H max. (% of H_n)	45 %
Load capacitance max. at U_e	1 μ F
No-load current I_o max., undamped	15 mA
Operating voltage U_b	10...30 VDC
Output resistance R_a	Open drain
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage U_i	75 V DC
Rated operating current I_e DC	200 mA
Rated operating voltage U_e DC	24 V
Rated short circuit current	100 A
Rated switch field strength H_n	1.2 kA/m
Residual current I_r max.	80 μ A
Switching frequency	10000 Hz
Turn-off delay t_{off} max.	0.05 ms
Turn-on delay t_{on} max.	0.05 ms
Utilization category	DC -13

Voltage drop static max.	3.1 V
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Environmental conditions

Ambient temperature	-25...85 °C
Protection type IEC 60529	IP67

General data

Approval/Conformity	CE cULus
Basic standard	IEC 60947-5-2
Not incl. in scope of delivery	Mounting bracket, e.g. BMF 305-HW-17

Material

Housing material	LCP
Material jacket	PUR
Material sensing surface	LCP

Mechanical data

Dimension	33.5 x 5 x 10.5 mm
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Output/Interface

Switching output	PNP Normally closed (NC)
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Range/Distance

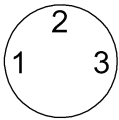
Ripple max. (% of U_e)	15 %
Temp. drift max. (% of H_n)	0.3 %

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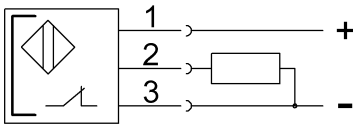
Remarks

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

Connector view



Wiring Diagram



Diagram

