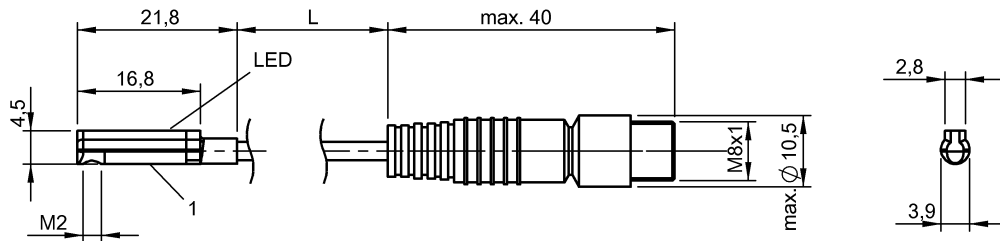


BMF 214K-PS-C-2A-SA2-S49-00,3 BMF00A2



1) Sensing surface



Display/Operation

Function indicator	yes
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Electrical connection

Cable diameter D	2.50 mm
Cable length	0.3 m
Connection	M8x1-Connector, 3-pole
Connection type	Cable with connector, 0.30 m, PUR
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Assured switching field strength Ha	2 kA/m
Load capacitance max. at Ue	1 µF
MTTF (40 °C)	520 a
No-load current I ₀ max., undamped	5 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	100 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 µA
Switching frequency	7000 Hz
Turn-off delay t _{off} max.	0.07 ms
Turn-on delay t _{on} max.	0.07 ms
Utilization category	DC -13

Voltage drop static max.	2.5 V
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Environmental conditions

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

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 a

General data

Application	Optimized response path especially suited for short-stroke cylinders.
Approval/Conformity	CE cULus
Basic standard	IEC 60947-5-2
Trademark	Global

Material

Housing material	PA, PA 12
Material jacket	PUR

Mechanical data

Dimension	16.8 x 2.9 x 4.5 mm
Tightening torque	0.03 Nm

BMF 214K-PS-C-2A-SA2-S49-00,3 BMF00A2

Output/Interface

Switching output PNP Normally open (NO)

Range/Distance

Ripple max. (% of Ue) 15 %
Temp. drift max. (% of Hn) 0.3 %

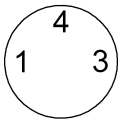
Remarks

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

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Connector view



Wiring Diagram

