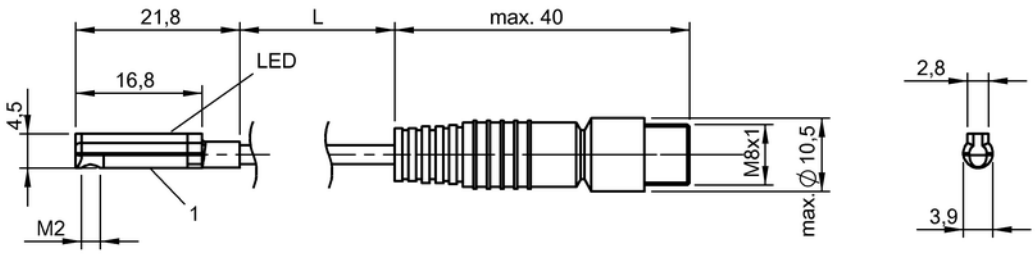
BMF 214K-PS-C-2A-SA2-S49-00,3
Ordering code: BMF00A2

Sensors for cylinders
BMF 214K
Cylinder housing: C-slot

PNP, Normally open (NO)
Miniature



1) Active surface

Characteristic data

Connection type	Cable with connector
Operating voltage	10...30 V DC
Trademark	GLOBAL
Short-circuit protected	yes
Protected against polarity reversal	yes
Protected against miswiring	yes
Area of application	Optimized response path especially suited for short-stroke cylinders.

Electrical data

Electrical version	DC, direct current
Rated operating voltage Ue DC	24 V
Effective operating current Ie	100 mA
Rated insulation voltage Ui	75 DC
Rated short circuit current	100 A
Output resistance Ra	Open drain
Load capacitance max. (at Ue)	1 µF
No-load current Io damped max.	8 mA
Max. no-load cur. Io undamped	5 mA
Off-state current Ir max.	80 µA
Ripple max. (% of Ue)	15
Switching freq. f max.	7000 Hz
Voltage drop static max.	2,5 V
Turn-off delay toff max.	0,07 ms
Turn-on delay ton max.	0,07 ms
Rated switching field strength	1,2 kA/m
Assured switching field streng	2 kA/m

Mechanical data

Housing material	PA 12
Cable jacket material	PUR
Cable short designation	Li12Y11Y-O
Cable length	0,3 m
Cable diameter D max.	2,5
Connector type	M08x1-S49
Ambient temperature	-25...85 °C
Temperature drift max. % of Hn	0,3 %
Tightening torque	0.03 Nm

Basic data

Principle of operation	Magnetic
Enclosure Type per IEC 60529	IP67
Degree of contamination	3
Basic standard	IEC 60947-5-2
Utilisation category	DC 13

Remarks

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

LISTED IND. CONT. EQ. 81U2 for use in the secondary of a class 2 source of supply

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