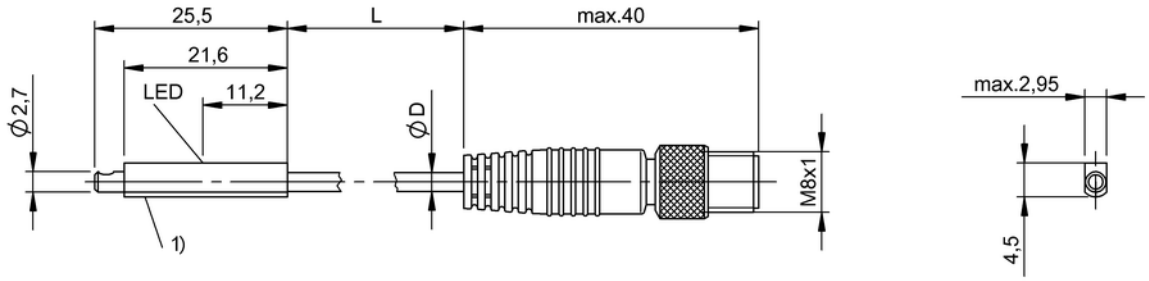
BMF 303K-PS-C-2A-SA2-S49-00,3
Ordering code: BMF0043

Sensors for cylinders
BMF 303
Cylinder housing: Depending on mounting

PNP, Normally open (NO)
Miniature



1) Active surface

Characteristic data

Connection type	Cable with connector
Operating voltage	10...30 V DC
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
Effective operating current Ie	100 mA
Rated insulation voltage Ui	75 DC
Rated short circuit current	100 A
Output resistance Ra	Open emitter
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.	110 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
Hysteresis H max. (in % of Hn)	45 %

Mechanical data

Housing material	LCP
Sensing surface material	LCP
Cable jacket material	PUR
Cable short designation	Li12Y11Y-O
Cable length	0,3 m
Cable diameter D max.	2,8
Connector type	M08x1-S49
Ambient temperature	-25...85 °C
Temperature drift max. % of Hn	0,3 %

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

Not incl. in scope of delivery	Mount.clamp, e.g. BMF303-HW-28

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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Balluff China : +86 (0) 21-50 644131

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