

BMF 305K-PS-C-2-SA2-S49-00,2
Ordering code: BMF005K

PNP, Normally open (NO)

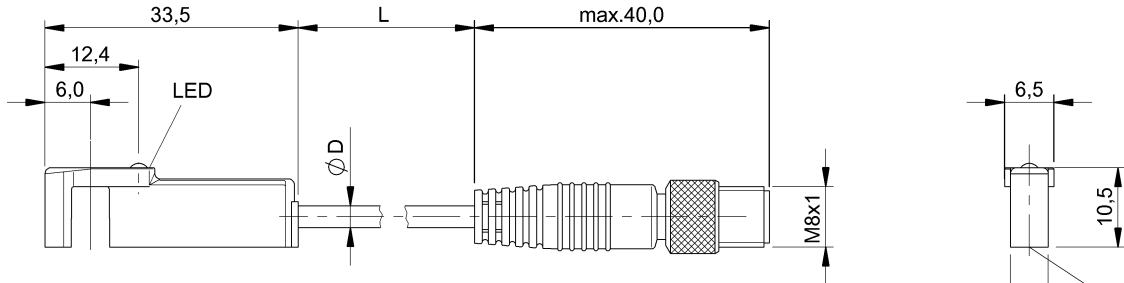
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Sensors for cylinders

BMF 305K

Cylinder housing: Depending on clamp



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 reverse connection	yes

Electrical data

Electrical version	DC, direct current
Rated operating voltage U _e DC	24 V
Effective operating current I _e	200 mA
Rated insulation voltage U _i	75 DC V
Rated short circuit current	100 A
Output resistance R _a	Open drain
Load capacitance max. (at U _e)	1 µF
No-load current I _o damped	15 mA
No-load current I _o undamped	10 mA
Off-state current I _r max.	80 µA
Ripple max. (% of U _e)	15 %
Switching freq. f max.	10000 Hz
Voltage drop static max.	3,1 V
Turn-off delay t _{off} max.	0,05 ms
Turn-on delay t _{on} max.	0,05 ms
Rated switching field strength	1,2 kA/m
Assured switching field strength	2 kA/m

Hysteresis H max. (in % of H_n) 45 %

Mechanical data

Housing material	LCP
Sensing surface material	PU
Cable jacket material	PUR
Cable short designation	LiFY11Y-O
Cable length	0,2 m
Cable diameter D max.	2,9 mm
Connector type	M08x1-S49
Ambient temperature	-25...85 °C
Temperature drift max. % of H _n	0,3 %

Basic data

Principle of operation	Magnetic
Degree of protection as per IEC 60529	IP67
Degree of contamination	3
Basic standard	IEC 60947-5-2
Base type	BMF 305K-PS-C-2-S49-
Base type deviation	With screw-on connector
Utilisation category	DC 13

Remarks

Not incl. in scope of delivery Mount.clamp, e.g. BMF305-HW-17
 The sensor is functional again after the overload has been eliminated.



Definitions see main catalog

subject to change

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