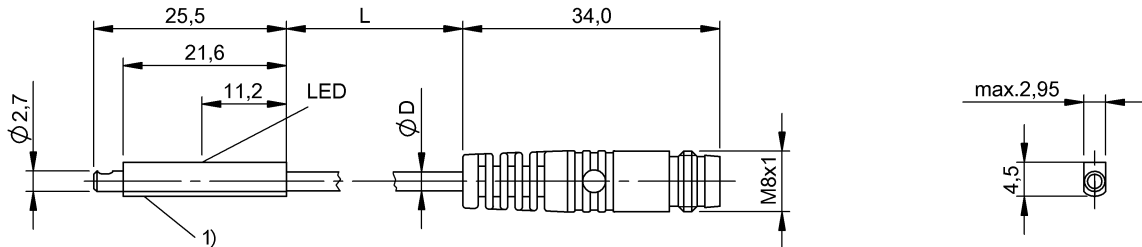


BMF 303K-PS-C-2-S49-00,2
Ordering code: BMF003F

PNP, Normally open (NO)
Small housing

BALLUFF
sensors worldwide

Sensors for cylinders
BMF 303
Cylinder housing: Depending on clamp



Characteristic data

Short-circuit protected	yes
Protected against polarity reversal	yes
Protected against reverse connection	yes
Line-induced noise	3A(20V-HF)

Electrical data

Connection type	Cable with connector
Output resistance Ra	Open drain
Rated operating voltage Ue DC	24 V
Effective operating current Ie	100 mA
Rated insulation voltage Ui	75 DC V
Rated short circuit current	100 A
Electrical version	DC, direct current
Utilisation category	DC 13
Load capacitance max. (at Ue)	1 µF
No-load current I _o damped	12 mA
No-load current I _o undamped	8 mA
Off-state current I _r max.	80 µA
Ripple max. (% of Ue)	15 %
Switching output	PNP
Switching function	Normally open (NO)
Switching freq. f max.	10000 Hz
Voltage drop static max.	2 V

Principle of operation

Turn-off delay t _{off} max.	0,05
Turn-on delay t _{on} max.	0,05
Rated switching field strength	1,2 kA/m
Assured switching field streng	2 kA/m
Hysteresis H max. (in % of H _n)	45 %

Magnetic

Turn-off delay t _{off} max.	0,05
Turn-on delay t _{on} max.	0,05
Rated switching field strength	1,2 kA/m
Assured switching field streng	2 kA/m
Hysteresis H max. (in % of H _n)	45 %

Mechanical data

Ambient temperature	-25...85 °C
Housing material	LCP
Sensing surface material	LCP
Cable jacket material	PUR
Cable short designation	Li12Y11Y-O
Cable length	0,2 m
Cable diameter D max.	2,5 mm
Connector type	M08x1-S49
Degree of contamination	3
Temperature drift max. % of H _n	0,3 %

Basic data

Basic standard	IEC 60947-5-2
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Remarks

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

subject to change

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