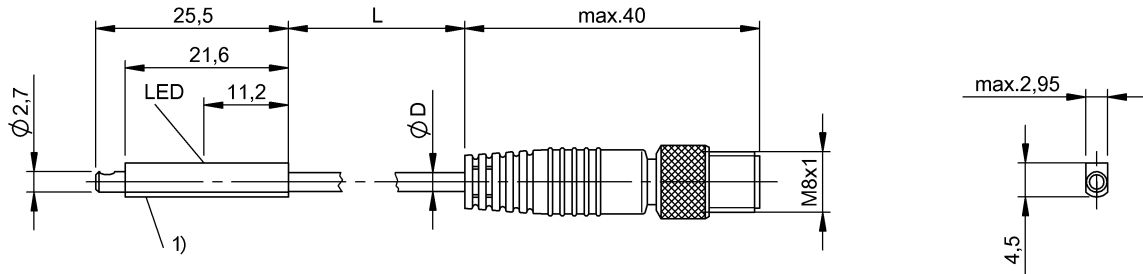


**BMF 303K-PS-C-2A-SA2-S49-00,2**  
**Ordering code: BMF0042**

**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)
Application	Optimized response path especially suited for short-stroke cylinders.

**Electrical data**

Connection type	Cable with connector
Output resistance Ra	Open emitter
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 <sub>o</sub> damped	8 mA
No-load current I <sub>o</sub> undamped	5 mA
Off-state current I <sub>r</sub> max.	110 µA
Ripple max. (% of Ue)	15 %
Switching output	PNP
Switching function	Normally open (NO)
Switching freq. f max.	7000 Hz
Voltage drop static max.	2,5 V

Principle of operation	Magnetic
Turn-off delay t <sub>off</sub> max.	0,07
Turn-on delay t <sub>on</sub> max.	0,07
Rated switching field strength	1,2 kA/m
Assured switching field streng	2 kA/m
Hysteresis H max. (in % of H <sub>n</sub> )	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.	2,8 mm
Connector type	M08x1-S49
Degree of contamination	3
Temperature drift max. % of H <sub>n</sub>	0,3 %

**Basic data**

Basic standard	IEC 60947-5-2
Base type	BMF 303K-PS-C-2-S49-05
Base type deviation	With screw-on connector

**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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