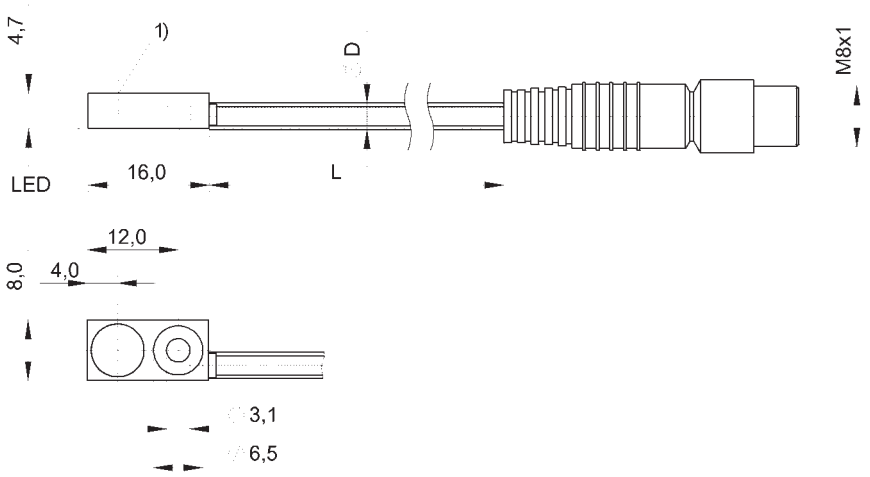
Inductive sensor

BES R04MC-PSC20B-EP00,2-GS49-107
BES049E

BALLUFF
sensors worldwide



1) Active surface

- **PNP**
- **Normally open (NO)**
- **1.80 mm**
- **Flush (shielded)**
- **Cable with connector, Silicon rubber, 0.20 m M08x1-S49**

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

General attributes

Approvals / Conformity	CE cULus
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Function indicator	Yes
Operating distance marking	■■
Polarity reversal protected	Yes
Power indicator	No
Short circuit protected	Yes

Electrical attributes

Connection type	Cable with connector
Eff. operating current Ie	100 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at Ue)	0.200 µF
Max. no-load cur. Io undamped	3.0 mA
No-load current Io damped max.	10.0 mA
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	9.6 V
Rated insulation voltage Ui	75 VDC
Rated short circuit current	100 A
Ripple max. (% of Ue)	15 %
Switching freq. f max. (at Ue)	5000 Hz
Switching function	Normally open (NO)
Switching output	PNP
Voltage drop static max.	2.5 V

Mechanical attributes

Ambient temperature Ta max.	70 °C
Ambient temperature Ta min.	-25 °C
Assured operating distance Sa	1.60 mm
Cable diameter D max.	3.5 mm
Cable jacket material	Silicon rubber
Cable length	0.20 m
Connector type	M08x1-S49
Depth	4.7 mm
Eff. operating distance Sr	1.80 mm
Height (small side)	8.0 mm
Housing material	CuZn Ni-free coating
Mech. installation condition	Flush (shielded)
Rated operating distance Sn [mm]	1.80 mm
Sensing face material	Ceramic
Width (long side)	16.0 mm

Additional text
The sensor is functional again after the overload has been eliminated.

