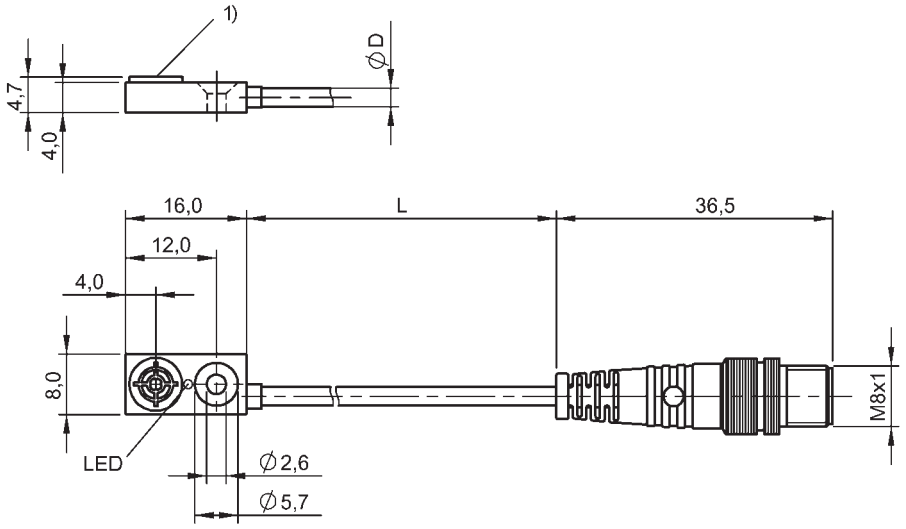
Inductive sensor

BES R04KC-PSC15B-EP00,13-GS49
BES01YA

BALLUFF
sensors worldwide



1) Active surface

- **PNP**
- **Normally open (NO)**
- **1.50 mm**
- **Flush (shielded)**
- **Cable with connector, PUR, 0.13 m**
  M08x1-S49

CE

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

c UL us LISTED IND. CONT. EQ 81U2 for use in the secondary of a class 2 source of supply Environmental - Type 1 Enclosure

General attributes

Approvals / Conformity	cULus CE
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Function indicator	Yes
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
Minimum operating current Im	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]	10.0 V
Rated insulation voltage Ui	75 VDC
Rated short circuit current	100 A
Ripple max. (% of Ue)	15 %
Switching freq. f max. (at Ue)	2500 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	1.20 mm
Cable diameter D max.	2.4 mm
Cable jacket material	PUR
Cable length	0.13 m
Connector type	M08x1-S49
Depth	4.7 mm
Eff. operating distance Sr	1.50 mm
Height (small side)	8.0 mm
Housing material	PA 6 - GF30
Mech. installation condition	Flush (shielded)
Rated operating distance Sn [mm]	1.50 mm
Sensing face material	PA 6 - GF30
Tightening torque	0.06 Nm
Width (long side)	16.0 mm

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

