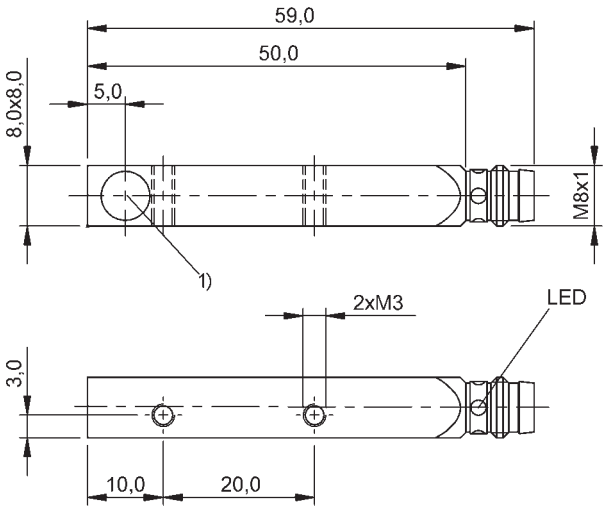
Inductive sensor

BES Q08ZC-PSC30B-S49G
BES01U4

BALLUFF
sensors worldwide



1) Active surface

- **PNP**
- **Normally open (NO)**
- **3.00 mm**
- **Flush (shielded)**
- **Connector, M08x1-S49**

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

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

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	Connector
Eff. operating current Ie	200 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at Ue)	0.500 µF
Max. no-load cur. Io undamped	8.0 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	12.0 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)	1000 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	2.40 mm
Connector type	M08x1-S49
Depth	8.0 mm
Eff. operating distance Sr	3.00 mm
Height (small side)	8.0 mm
Housing material	GD-ZnAl
Mech. installation condition	Flush (shielded)
Rated operating distance Sn [mm]	3.00 mm
Sensing face material	PBT
Width (long side)	59.0 mm

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

