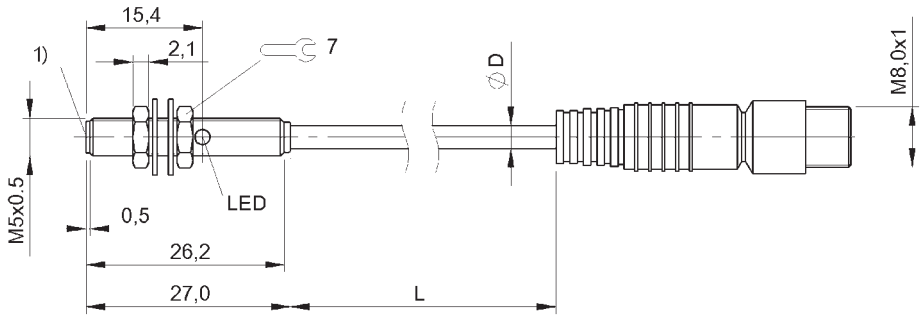
Inductive sensor

BES 516-3005-G-E4-C-S49-00,2
BES00HA

BALLUFF
sensors worldwide



1) Active surface

- **PNP**
- **Normally open (NO)**
- **1.50 mm**
- **Flush (shielded)**

- **Cable with connector, PUR, 0.20 m**
  M08x1-S49

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

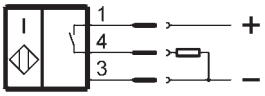
IND. CONT. EQ 81U2 for use in the secondary of a class 2 source of supply Environmental - Type 1 Enclosure

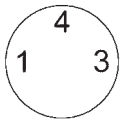
General attributes

Approvals / Conformity	CE cULus EAC
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
MTTF	305 a

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)	1.000 µF
Max. no-load cur. Io undamped	2.0 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	6.0 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)	10 %
Switching freq. f max. (at Ue)	5000 Hz
Switching function	Normally open (NO)
Switching output	PNP
Voltage drop static max.	2.0 V





Mechanical attributes

Ambient temperature Ta max.	70 °C
Ambient temperature Ta min.	-25 °C
Assured operating distance Sa	1.21 mm
Cable diameter D max.	3.0 mm
Cable jacket material	PUR
Cable length	0.20 m
Connector type	M08x1-S49
Depth	27.0 mm
Diameter d1	M05x0.5
Eff. operating distance Sr	1.50 mm
Housing material	Stainless steel
Mech. installation condition	Flush (shielded)
Mounting length	26.0 mm
Rated operating distance Sn [mm]	1.50 mm
Sensing face material	PBT
Tightening torque	1 Nm

Remarks

The sensor is functional again after the overload has been eliminated.
EMC: Surge immunity; external protection circuit required. Document 825345, Section 2.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.