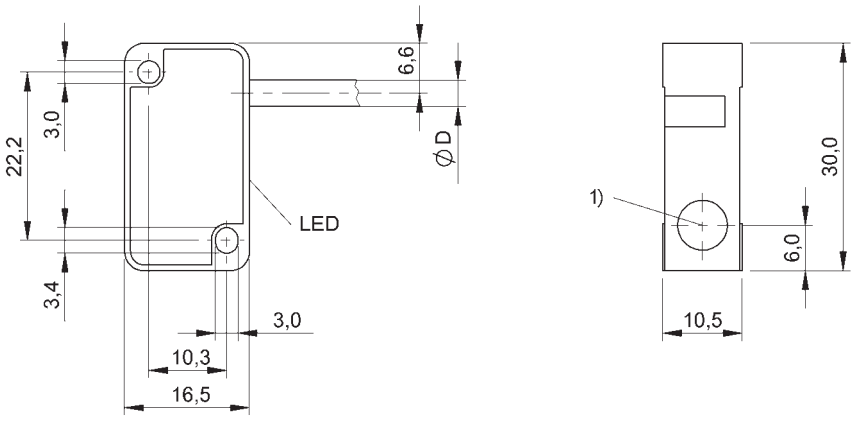
Inductive sensor

BES 517-399-NO-C-03
Order code: BES01NH

BALLUFF
sensors worldwide



1) Active surface

- **NPN**
- **Normally open (NO)**
- **2.00 mm**
- **Flush (shielded)**
- **Cable, PVC, 3.00 m**

CE

General attributes	
Approvals / Conformity	CE
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP65
Function indicator	Yes
Polarity reversal protected	Yes
Power indicator	No
Short circuit protected	Yes

Electrical attributes	
Connection type	Cable
Eff. operating current Ie	200 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	3.0 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)	2500 Hz
Switching function	Normally open (NO)
Switching output	NPN
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	PVC
Cable length	3.00 m
Conductor cross-section	0.14 mm²
Depth	16.5 mm
Eff. operating distance Sr	2.00 mm
Height (small side)	10.5 mm
Housing material	PBT 20 % GV
Mech. installation condition	Flush (shielded)
Number of conductors	3
Rated operating distance Sn [mm]	2.00 mm
Sensing face material	PBT 20 %GV
Width (long side)	30.0 mm

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

