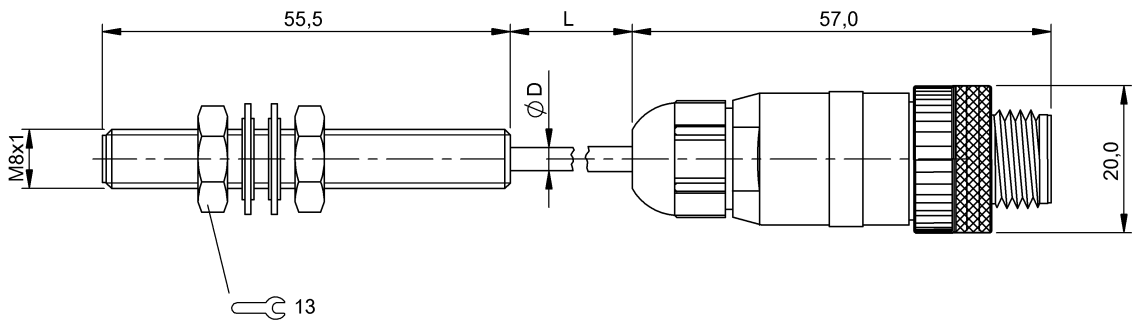


Inductive Sensors
BES 516-324-SA-26-SP03
Order Code: BES02HJ



Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Cable diameter D	3.30 mm
Cable length L	0.2 m
Connection	M12x1-Male, 4-pin, A-coded
Connection type	Cable with connector, 0.20 m, PTFE
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	no

Electrical data

Load capacitance max. at Ue	1 µF
Min. operating current Im	0 mA
No-load current Io max., damped	20 mA
No-load current Io max., undamped	12 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	4.7 kOhm + D
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	10 ms
Residual current Ir max.	80 µA
Ripple max. (% of Ue)	10 %
Switching frequency	1500 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-25...120 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Interface

Switching output	PNP normally open (NO)
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Material

Housing material	Stainless steel
Material jacket	PTFE
Material sensing surface	PBT

Mechanical data

Dimension	Ø 8 x 55.5 mm
Installation	for flush mounting
Mounting length	55.50 mm
Size	M8x1
Tightening torque	5 Nm

Range/Distance

Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

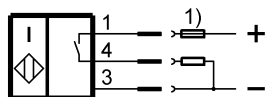
Remarks

Ta ≥ 70 °C... ≤ 120 °C: Ie ≤ 150 mA.
EMC: Surge resistance
External protection circuit is required. Document 825345, Section 2.
Flush: See installation instructions for inductive sensors with extended range 825357.
Recommendation: After a short circuit check the device for proper function.

Connector Drawings



Wiring Diagrams



1) For SCP see electrical data