

Basic features

Approval/Conformity	CE UKCA cULus WEEE
Base type deviation	Cable, Sn, Ta, Lg
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	10 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 10.00 m, PTFE
Number of conductors	3
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

Functional safety

MTTF (40 °C)	595 a
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Interface

Switching output	PNP normally open (NO)
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Inductive Sensors
BES 516-324-SA26-10
Order Code: BES02HN



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

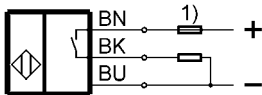
Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Ta ≥ 70 °C... ≤ 120 °C: Ie ≤ 150 mA.
Recommendation: After a short circuit check the device for proper function.
Flush: See installation instructions for inductive sensors with extended range 825357.
EMC: Surge resistance
External protection circuit is required. Document 825345, Section 2.
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams



1) For SCP see electrical data