

### 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	2 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection type	Cable, 2.00 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 U <sub>e</sub>	1 µF
Min. operating current I <sub>m</sub>	0 mA
No-load current I <sub>o</sub> max., damped	20 mA
No-load current I <sub>o</sub> max., undamped	12 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Output resistance R <sub>a</sub>	4.7 kOhm + D
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	200 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	10 ms
Residual current I <sub>r</sub> max.	80 µA
Ripple max. (% of U <sub>e</sub> )	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 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67, IP60 at cable exit

### 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-SA26-02**  
Order Code: **BES02HK**

**BALLUFF**

**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
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.

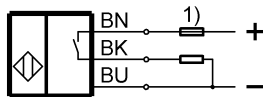
EMC: Surge resistance

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