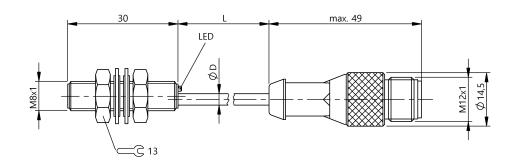
# BES 516-324-E4-C-S4-00,2

**Order Code: BES00N8** 











Class 2 Type 1





### **Basic features**

Approval/Conformity	CE
	EAC
	cULus
	WEEE

Basic standard IEC 60947-5-2

### Display/Operation

**Function indicator** yes Power indicator no

### **Electrical connection**

**Short-circuit protection** 

Cable diameter D	3.0 mm
Cable length L	0.2 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection	M12x1-Male, 4-pin, A-coded
Connection type	Cable with connector, 0.20 m,
	PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes

yes

#### **Electrical data**

Load capacitance max. at Ue  $1.0~\mu\text{F}$ No-load current lo max., damped 7 mA No-load current lo max., undamped 2 mA Operating voltage Ub 10...30 VDC Output resistance Ra 33.0 kOhm Protection class 250 V AC Rated insulation voltage Ui 200 mA Rated operating current le Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 25 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 10 % Switching frequency 5000 Hz **Utilization category** DC -13 Voltage drop static max. 2.5 V

### **Environmental conditions**

Ambient temperature	-4085 °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

IP68 Protection degree

### **Functional safety**

Subject to change without notice: 247287

MTTF (40 °C) 595 a

### BES 516-324-E4-C-S4-00,2 Order Code: BES00N8



### Material

Housing material	Stainless steel
Material jacket	PUR
Material sensing surface	PBT

### Mechanical data

Dimension	Ø 8 x 30 mm
Installation	for flush mounting
Size	M8x1
Tightening torque	8 Nm

### Output/Interface

Switching output	PNP normally open (NO)
Range/Distance	
Assured operating distance Sa	1.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	1.5 mm
Real switching distance sr	1.5 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	•
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

#### Remarks

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

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.

## **Connector Drawings**



### **Wiring Diagrams**

