





Basic features

Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Cable diameter D	3.0 mm
Cable length L	0.3 m
Conductor cross-section	0.14 mm ²
Connection	M12x1-Male, 4-pin, A-coded
Connection type	Cable with connector, 0.30 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
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Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1.0 μF
No-load current Io max., damped	7 mA
No-load current Io max., undamped	2 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm
Protection class	Ш
Rated insulation voltage Ui	250 V AC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	25 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	10 %
Switching frequency	5000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V
Environmental conditions Ambient temperature Contamination scale EN 60068-2-27, Shock	-4085 °C 3 Half-sinus, 30 q _n , 11 ms
EN 60068-2-6 Vibration	
	55 Hz, amplitude 1 mm, 3x30 mir
IP rating	55 Hz, amplitude 1 mm, 3x30 mir
IP rating Functional safety	55 Hz, amplitude 1 mm, 3x30 min
IP rating Functional safety MTTF (40 °C)	55 Hz, amplitude 1 mm, 3x30 min IP68
EN 60068-2-6, Vibration IP rating Functional safety MTTF (40 °C) Interface	55 Hz, amplitude 1 mm, 3x30 min IP68
IP rating Functional safety MTTF (40 °C)	55 Hz, amplitude 1 mm, 3x30 mir IP68
IP rating Functional safety MTTF (40 °C) Interface	55 Hz, amplitude 1 mm, 3x30 mir IP68 595 a
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Internet

Inductive Sensors BES 516-324-G-E4-C-S4-00,3 Order Code: BES00P2



Material

Material		Range/Distance	
Housing material	Stainless steel	Assured operating distance Sa	1.6 mm
Material jacket	PUR	Hysteresis H max. (% of Sr)	15.0 %
Material sensing surface	PBT	Rated operating distance Sn	2 mm
		Real switching distance sr	2 mm
Mechanical data		Repeat accuracy max. (% of Sr)	5.0 %
Dimension	<i>a</i>	Switching distance marking	
Dimension	Ø 8 x 30 mm	Temperature drift max. (% of Sr)	10 %
Installation	for flush mounting	Tolerance Sr	+10 %
Mounting length	28.00 mm		10 /0
Size	M8x1		
Tightening torque	8 Nm		

Remarks

Flush: See installation instructions for inductive sensors with extended range 825357. 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 (Schematic)

