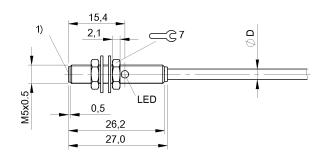
BES 516-3022-G-E4-C-PU-05 **Order Code: BES00L3**





1) Sensing surface









Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	3.00 mm
Cable length L	5 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 5.00 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	2 mA
No-load current lo max., undamped	6 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open drain
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	21 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 V

Environmental conditions

Ambient temperature	-2570 °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	

305 a

MTTF (40 °C)

BES 516-3022-G-E4-C-PU-05 **Order Code: BES00L3**



General data

Approval/Conformity cULus CE EAC WEEE Basic standard IEC 60947-5-2 Material Housing material Stainless steel Material jacket PUR Material sensing surface PBT Mechanical data Dimension Ø 5 x 27 mm Installation for flush mounting Size M5x0.5

Output/Interface

Switching output	PNP normally closed (NC)	
Range/Distance		
Assured operating distance Sa	1.21 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

Tightening torque

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

For further information about the MTTF and B10d see MTTF / B10d certificate

1 Nm

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.

Subject to change without notice: 235781

Wiring Diagrams

