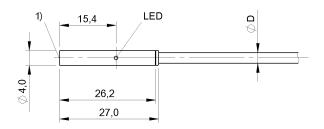
BES 516-3007-E4-C-PU-05 Order Code: BES00HY





1) Sensing surface



Approval/Conformity cULus
CE
EAC

WEEE

Basic standard IEC 60947-5-2

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 mm²

Connection type Cable, 5.00 m, PUR

Number of conductors 3

Polarity reversal protected yes

Protection against device mix-ups
Short-circuit protection yes

Electrical data

Load capacitance max. at Ue $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 6 mA No-load current lo max., undamped 2 mA Operating voltage Ub 10...30 VDC Output resistance Ra Open drain 75 V DC Rated insulation voltage Ui Rated operating current le 100 mA Rated operating voltage Ue DC 24 V 100 A Rated short circuit current Ready delay tv max. 21 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 10 % 5000 Hz Switching frequency DC -13 **Utilization category** Voltage drop static max. 2 V

Environmental conditions

Ambient temperature -25...70 °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

Protection degree IP67

Functional safety

Subject to change without notice: 235753

MTTF (40 °C) 305 a

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Material

Housing materialStainless steelMaterial jacketPURMaterial sensing surfacePBT

Mechanical data

DimensionØ 4 x 27 mmInstallationfor flush mountingSizeD4.0

Output/Interface

Switching output	PNP normally open (NO)
Range/Distance	
Assured operating distance Sa	0.65 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	0.8 mm
Real switching distance sr	0.8 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.

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

