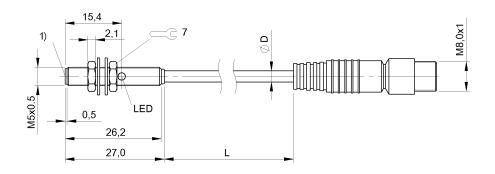
BES 516-3005-G-E4-C-S49-00,1

Order Code: BES00H9





1) Sensing surface



Approval/Conformity CE cULus EAC WEEE Basic standard IEC 60947-5-2

Display/Operation

Function indicator yes **Power indicator**

Electrical connection

Cable diameter D 3.00 mm Cable length L 0.1 m Connection M8x1-Male, 3-pin Connection type Cable with connector, 0.10 m, **PUR** Polarity reversal protected yes Protection against device mix-ups ves 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 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 DC -13 **Utilization category** Voltage drop static max. 2 V

Environmental conditions

Ambient temperature -25...70 °C Contamination scale 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: 235776

MTTF (40 °C) 305 a

BES 516-3005-G-E4-C-S49-00,1 Order Code: BES00H9



Material

Housing material Stainless steel Material jacket PUR Material sensing surface PBT

Mechanical data

Dimension Ø 5 x 27 mm Installation for flush mounting M5x0.5 Size **Tightening torque** 1 Nm

Output/Interface

Switching output PNP normally open (NO) 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

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

EMC: Surge resistance

External protection circuit is required. Document 825345, Section 2.

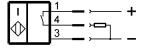
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector Drawings



Wiring Diagrams



2/2