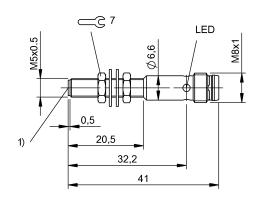
BES 516-3005-G-E5-C-S49 **Order Code: BES00HF**





1) Sensing surface





Class 2 Type 1



Basic features

Approval/Conformity cULus CF EAC

WEEE

Basic standard IEC 60947-5-2

Display/Operation

Function indicator yes Power indicator

Electrical connection

Connection M8x1-Male, 3-pin Polarity reversal protected yes Protection against device mix-ups yes 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

-25...70 °C Ambient temperature 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

BES00HF_0.34_2020-03-05

Protection degree IP67

Functional safety

MTTF (40 °C) 305 a

BES 516-3005-G-E5-C-S49 Order Code: BES00HF



Material

Housing material Stainless steel

Material sensing surface PBT

Mechanical data

Output/Interface

Tolerance Sr

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 %

±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

