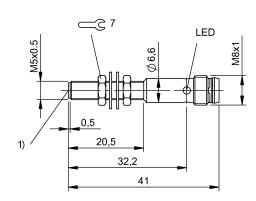
BES 516-3005-G-E5-C-S49

Ordercode: BES00HF





1) Sensing surface





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Function indicator ves Power indicator no

Electrical connection

Connection M8x1-Male, 3-pole Protection against device mix-ups yes Short-circuit protection yes

Electrical data

Load capacitance max. at Ue 1μF No-load current lo max., undamped 2 mA No-load current lo max., damped 6 mA 10...30 VDC Operating voltage Ub Output resistance Ra Open drain Polarity reversal protected yes 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 µA Residual ripple max. (% of Ue) 10 % Switching frequency 5000 Hz Utilization category DC-13 Voltage drop static max. 2 V

Environmental conditions

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

Internet Balluff Germany Balluff USA **Balluff China**

www.balluff.com +49 (0) 7158 173-0, 173-370 1-800-543-8390 +86 (0) 21-50 644131

EN 60068-2-27, Shock EN 60068-2-6, Vibration

IP rating

Half-sinus, 30 gn, 11 ms 55 Hz, amplitude 1 mm, 3x30 IP67

Functional safety

MTTF (40 °C) 305 a

General data

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

Material

Housing material Stainless steel Material sensing surface PBT

Mechanical data

Dimension Ø 5 x 41 mm Installation flush M5x0.5 Tightening torque 1 Nm

Output/Interface

Switching output PNP Normally open (NO)

Range/Distance

Assured operating distance Sa 1.21 mm

For definitions of terms, see main catalog Subject to change without notice [223509] eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES00HF_0.14_2017-05-03

Inductive Sensors

BES 516-3005-G-E5-C-S49

Ordercode: BES00HF



Effective operating distance Sr
Hysteresis H max. (% of Sr)
15.0 %
Rated operating distance Sn
1.5 mm
Repeat accuracy max. (% of Sr)

Switching distance marking
Temperature drift max. (% of Sr)

Tolerance Sr
1.5 mm
1.5 mm
1.5 mm
1.5 mm
1.5 mm
1.5 mm
1.7 mm
1.7 mm
1.8 mm
1.8 mm
1.9 mm
1.9 mm
1.9 mm
1.0 %
1.0 %
1.0 %

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 further information about the 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 view



Wiring Diagram

