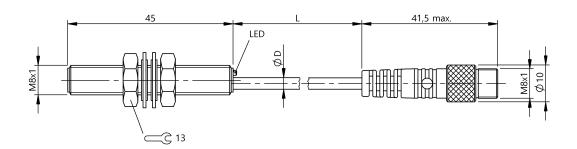
BES 516-324-EO-C-S49-01 Order Code: BES02PP















Basic features

Approval/Conformity CE
UKCA
cULus
WEEE

Basic standard IEC 60947-5-2

Display/Operation

Function indicator yes
Power indicator no

Electrical connection

Cable diameter D 3.0 mm

Cable length L 1 m

Conductor cross-section 0.14 mm²

Connection M8x1-Male, 3-pin

Connection type Cable with connector, 1.00 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 $1.0~\mu\text{F}$ No-load current lo max., damped 7 mA No-load current lo max., undamped 2 mA Operating voltage Ub 10...30 VDC Output resistance Ra 33.0 kOhm **Protection class** 250 V AC Rated insulation voltage Ui Rated operating current le 200 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 25 ms Residual current Ir max. 10 μΑ 10 % Ripple max. (% of Ue) 5000 Hz Switching frequency **Utilization category** DC -13 Voltage drop static max. 2.5 V

Environmental conditions

Ambient temperature -40...85 °C

Contamination scale 3

EN 60068-2-27, Shock Half-sinus, 30 g_n, 11 ms

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

IP rating IP68

Functional safety

MTTF (40 °C) 595 a

Interface

Switching output PNP normally open (NO)

Inductive Sensors

BES 516-324-EO-C-S49-01 Order Code: BES02PP



Material

Housing materialStainless steelMaterial jacketPURMaterial sensing surfacePBT

Mechanical data

Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr 1.2 mm 15.0 % 1.5 mm 1.5 mm 5.0 %

10 % ±10 %

Remarks

Tightening torque

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

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

8 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.

Connector Drawings



Wiring Diagrams

