













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 0.7 m Cable length L 0.14 mm² Conductor cross-section Connection M12x1-Male, 4-pin, A-coded Cable with connector, 0.70 m, PUR Connection type 3 Number of conductors Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection yes

Electrical data

Load capacitance max. at Ue 1.0 µF 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 Rated insulation voltage Ui 250 V AC 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 Ripple max. (% of Ue) 10 % Switching frequency 5000 Hz DC -13 Utilization category Voltage drop static max. 2.5 V

Environmental conditions

-40...85 °C Ambient temperature 3 Contamination scale 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

Switching output

Subject to change without notice: 247347

MTTF (40 °C) Interface

595 a

PNP normally open (NO)

BES 516-324-E4-C-S4-00,7 Order Code: BES00NC



Material

Housing materialStainless steelMaterial jacketPURMaterial sensing surfacePBT

Mechanical data

 Dimension
 Ø 8 x 30 mm

 Installation
 for flush mounting

 Mounting length
 28.00 mm

 Size
 M8x1

 Tightening torque
 8 Nm

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

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

