













Basic features

Approval/Conformity CE UKCA cULus WEEE Sn, fully threaded Base type deviation Basic standard IEC 60947-5-2

Display/Operation

Function indicator yes Power indicator no

Electrical connection

Connection M12x1-Male, 4-pin, A-coded Polarity reversal protected yes Protection against device mix-ups Short-circuit protection yes

Electrical data

Load capacitance max. at Ue 1μF Min. operating current Im 0 mA No-load current lo max., damped 32 mA No-load current lo max., undamped 20 mA Operating voltage Ub 10...30 VDC Output resistance Ra 1.8 kOhm + D + LED/4.7 kOhm + D Protection class Ш 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 80 μΑ Residual current Ir max. Ripple max. (% of Ue) 15% Switching frequency 2000 Hz DC -13 Utilization category Voltage drop static max. 2.5 V

Environmental conditions

-25...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

IP68 IP rating

Functional safety

MTTF (40 °C) 1015 a

Interface

Subject to change without notice: 113715

PNP normally open/normally Switching output closed (NO/NC)

Internet

Inductive Sensors

BES 516-113-SA3-S4-C Order Code: BES032M

BALLUFF

Material

Housing materialStainless steelMaterial sensing surfacePA 12

Mechanical data

 $\begin{array}{lll} \textbf{Dimension} & \varnothing \ 12 \times 70 \ \text{mm} \\ \textbf{Installation} & \text{for flush mounting} \\ \textbf{Mounting length} & 69.00 \ \text{mm} \\ \textbf{Size} & \text{M12x1} \\ \textbf{Tightening torque} & 20 \ \text{Nm} \\ \end{array}$

Range/Distance

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)

