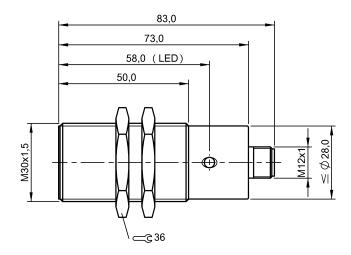
BES 516-114-G-S4-H Order Code: BES0166







Basic features

Approval/Conformity

EAC

WEEE

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 $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 15 mA 10 mA No-load current lo max., undamped Operating voltage Ub 10...55 VDC Output resistance Ra 33.0 kOhm + D/33.0 kOhm + D **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. 10 ms Residual current Ir max. 80 μΑ Ripple max. (% of Ue) 15 % 150 Hz Switching frequency **Utilization category** DC -13 2.5 V Voltage drop static max.

Environmental conditions

Ambient temperature-25...70 °CContamination scale3EN 60068-2-27, ShockHalf-sinus, 30 gn, 11 msEN 60068-2-6, Vibration55 Hz, amplitude 1 mm, 3x30 minIP ratingIP68

Functional safety

MTTF (40 °C) 500 a

Inductive Sensors

BES 516-114-G-S4-H Order Code: BES0166

BALLUFF

Interface

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

Material

Housing material
Brass, Nickel-free coated

PA 12

Mechanical data

Material sensing surface

DimensionØ 30 x 83 mmInstallationfor flush mountingSizeM30x1.5Tightening torque70 Nm

Range/Distance

Assured operating distance Sa 12 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 15 mm Real switching distance sr 15 mm Repeat accuracy max. (% of Sr) 5.0 % Switching distance marking Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±10 %

Remarks

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

Flush: See installation instructions for inductive sensors with extended range 825357.

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

