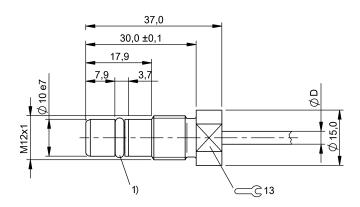
BES 516-300-S205-D-PU-03

Ordercode: BHS0028





1) O-Ring with thrust ring

C€ EH[

Display/Operation

Function indicator no Power indicator no

Electrical connection

Cable diameter D 3.50 mm Cable length 3 m Conductor cross-section 0.14 mm² Cable, 3.00 m, PUR Connection type Number of conductors Polarity reversal protected yes Protection against device mix-ups ves Short-circuit protection yes

Electrical data

Load capacitance max, at Ue 1 µF No-load current lo max., undamped 3 mA No-load current lo max., damped 8 mA Operating voltage Ub 10...30 VDC Output resistance Ra 150.0 kOhm Rated insulation voltage Ui 75 V DC Rated operating current le 200 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 50 ms Residual current Ir max. 10 µA Residual ripple max. (% of Ue) 15 % 2000 Hz Switching frequency DC-13 Utilization category Voltage drop static max. 2 V

Internet Balluff Germany Balluff USA **Balluff China**

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Environmental conditions

Ambient temperature -25...80 °C Contamination scale 3 EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 IP rating IP68

Functional safety

MTTF (40 °C) 855 a

General data

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

705918 Thrust ring, part number

Material

Gasket, material **NBR 70** Housing material Stainless steel (1.4104) PUR Material jacket Material sensing surface ΕP Support ring material PTFE

Mechanical data

Dimension Ø 12 x 37 mm Fastening detail M12x1 for flush mounting Installation Pressure rating max. 350 bar Pressure rating, note oil pressure rated

For definitions of terms, see main catalog Subject to change without notice [212560]

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BHS0028_0.1_2017-05-03 **Inductive Sensors**

BES 516-300-S205-D-PU-03

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Sealing ring, part number 631753Sealing ring, size $5.3 \times 2.4 \text{ mm}$ Size M12x1Tightening torque $20 \text{ Nm} \pm 10 \text{ \%}$ $\begin{array}{lll} \mbox{Rated operating distance Sn} & 1.5 \mbox{ mm} \\ \mbox{Repeat accuracy max. (% of Sr)} & 5.0 \mbox{ \%} \\ \mbox{Temperature drift max. (% of Sr)} & 10 \mbox{ \%} \\ \mbox{Tolerance Sr} & \pm 10 \mbox{ \%} \\ \end{array}$

Output/Interface

Switching output PNP Normally open (NO)

Range/Distance

Assured operating distance Sa 1.2 mm
Effective operating distance Sr 1.5 mm
Hysteresis H max. (% of Sr) 15.0 %

Remarks

Installation Instructions 614804

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

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.

Wiring Diagram

