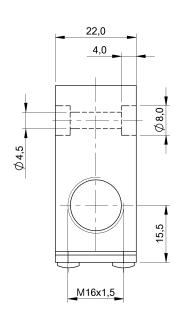
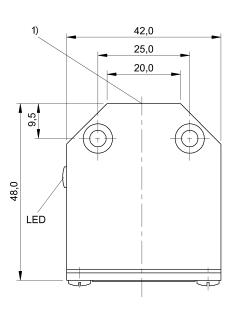
BES 516-346-H2-Y **Order Code: BES01FC**







Electrical data

1) Sensing surface

EH[▼ C€ □

Basic features	
Approval/Conformity	CE EAC WEEE
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	25 mA
No-load current lo max., undamped	15 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	2.0 kOhm + D + LED
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current le	130 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 %
Switching frequency	500 Hz
Utilization category	DC -13
Voltage drop static max.	35 V

Inductive Sensors

BES 516-346-H2-Y **Order Code: BES01FC**



Environmental conditions

Ambient temperature -25...70 °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 min

Protection degree IP67

Functional safety

MTTF (40 °C) 1620 a

Material

Housing material Aluminum Material sensing surface PA 12

Mechanical data

Connection cross-section 2.5 mm² Dimension 42 x 22 x 48 mm Installation for flush mounting **Tightening torque** 3...4 Nm (M16x1.5)

Tightening torque clamping screw 0.4 Nm

Output/Interface

Cable fitting, thread size M16x1.5

Switching output PNP normally open (NO)

Range/Distance

Assured operating distance Sa 4 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 5 mm Real switching distance sr 5 mm Repeat accuracy max. (% of Sr) 5.0 % Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±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.

Wiring Diagrams

