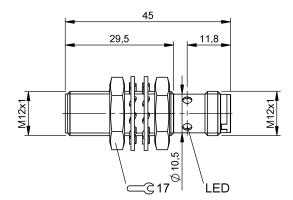
## BES 516-370-E5-C-S4 Order Code: BES00YT











IND. CONT. EQ. IS 81U2 Class 2 Type 1



CE

### **Basic features**

Approval/Conformity

CE cULus EAC

WEEE

Basic standard

IEC 60947-5-2

### Display/Operation

Function indicator

Power indicator

yes no

### **Electrical connection**

 Connection
 M12x1-Male, 4-pin, A-coded

 Polarity reversal protected
 yes

Protection against device mix-ups yes Short-circuit protection yes

### **Electrical data**

Load capacitance max. at Ue
Min. operating current Im

No-load current lo max., damped No-load current lo max., undamped

Operating voltage Ub 10...30 VDC
Output resistance Ra 33.0 kOhm +

Protection class

Rated insulation voltage Ui

Rated operating current le
Rated operating voltage Ue DC
Rated short circuit current

Residual current Ir max.
Ripple max. (% of Ue)
Switching frequency

Ready delay tv max.

Utilization category
Voltage drop static max.

33.0 kOhm + D

 $1 \, \mu F$ 

0 mA

2 mA

5 mA

250 V AC 200 mA 24 V 100 A

21 ms

10 µA 15 % 3500 Hz DC -13 1.5 V

### **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 IP68

### **Functional safety**

MTTF (40 °C) 640 a

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### Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

### Mechanical data

DimensionØ 12 x 45 mmInstallationfor flush mountingSizeM12x1Tightening torque10 Nm

### Output/Interface

Switching output	PNP normally closed (NC)
Range/Distance	
Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 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.

## **Connector Drawings**



### **Wiring Diagrams**

