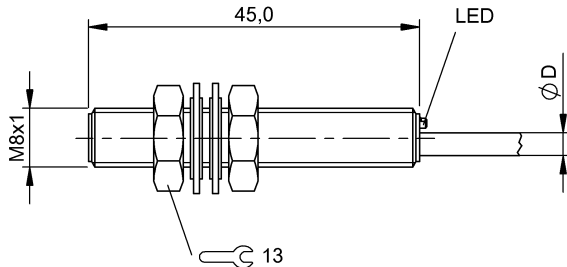


BES 516-377-EO-C-05  
BES01LF



IND. CONT. EQ  
8TU2  
for use in the secondary of  
a class 2 source of supply  
Environmental - Type 1 Enclosure



## Display/Operation

Function indicator	yes
Power indicator	no

## Electrical connection

Cable diameter D	3.00 mm
Cable length	5 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection type	Cable, 5.00 m, PVC
Number of conductors	3
Polarity reversal protected	yes
Short-circuit protection	yes

## Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	0.5 µF
MTTF (40 °C)	830 a
No-load current I <sub>o</sub> max., undamped	9 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Output resistance R <sub>a</sub>	33.0 kOhm + D
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage U <sub>i</sub>	250 V AC
Rated operating current I <sub>e</sub> DC	200 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	20 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I <sub>r</sub> max.	20 µA
Switching frequency	3000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

## Environmental conditions

Ambient temperature	-25...70 °C
Protection class	II
Protection type IEC 60529	IP68

## Functional safety

Diagnostic coverage	0.0 %
Functional safety	no
Mission Time	20 a

## General data

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

## Material

Housing material	Stainless steel
Material jacket	PVC
Material sensing surface	PBT

## Mechanical data

Dimension	Ø 8 x 45 mm
Installation	for flush mounting
Size	M8x1
Tightening torque	8 Nm

## Output/Interface

Switching output	PNP Normally closed (NC)
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## BES 516-377-EO-C-05 BES01LF

### Range/Distance

Assured operating distance Sa	1.2 mm
Range	1.5 mm
Rated operating distance Sn	1.5 mm
Ripple max. (% of Ue)	15 %
Temperature drift max. (% of Sr)	10 %

### Remarks

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

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

### Wiring Diagram

