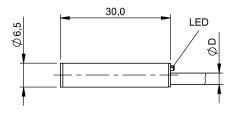
## Inductive Sensors BES 516-371-E4-C-PU-03 Order Code: BES00Z6

# BALLUFF



#### 

### **Basic features**

Short-circuit protection

Approval/Conformity Basic standard	CE UKCA cULus WEEE IEC 60947-5-2
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Cable diameter D	3.10 mm
Cable length L	3 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection type	Cable, 3.00 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes

yes

### Electrical data

Load capacitance max. at Ue	0.5 μF
Min. operating current Im	0 mA
No-load current lo max., damped	9 mA
No-load current lo max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + D
Protection class	II
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.	20 ms
Residual current Ir max.	20 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	3000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

## **Environmental conditions**

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68
Functional safety	

MTTF (40 °C)

Interface

Switching output

PNP normally open (NO)

Internet

830 a

## Inductive Sensors BES 516-371-E4-C-PU-03 **Order Code: BES00Z6**

# BALLUFF

## Material

Material		Range/Distance		
Stainless steel	Assured operating distance Sa	1.2 mm		
PUR	Hysteresis H max. (% of Sr)	15.0 %		
PBT	Rated operating distance Sn	1.5 mm		
	Real switching distance sr	1.5 mm		
	Repeat accuracy max. (% of Sr)	5.0 %		
	Temperature drift max. (% of Sr) 10 %	10 %		
Ø 6.5 x 30 mm for flush mounting D6.5	Tolerance Sr	±10 %		
	PUR PBT Ø 6.5 x 30 mm for flush mounting	Stainless steel Assured operating distance Sa   PUR Hysteresis H max. (% of Sr)   PBT Rated operating distance Sn   Real switching distance sr Repeat accuracy max. (% of Sr)   Ø 6.5 x 30 mm Temperature drift max. (% of Sr)   for flush mounting Tolerance Sr		

#### **Remarks**

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

UL-MARKINGS: - For use in NFPA 79 Applications only - Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers information.

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**

