



1) Sensing surface



### Basic features

<b>Approval/Conformity</b>	cULus CE UKCA WEEE
<b>Basic standard</b>	IEC 60947-5-2

### Display/Operation

<b>Function indicator</b>	yes
<b>Power indicator</b>	no

### Electrical connection

<b>Connection</b>	M5x0.5-Male
<b>Polarity reversal protected</b>	yes
<b>Protection against device mix-ups</b>	yes
<b>Short-circuit protection</b>	yes

### Electrical data

<b>Load capacitance max. at Ue</b>	0.2 $\mu$ F
<b>Min. operating current I<sub>m</sub></b>	1 mA
<b>No-load current I<sub>o</sub> max., damped</b>	10 mA
<b>No-load current I<sub>o</sub> max., undamped</b>	3 mA
<b>Operating voltage U<sub>b</sub></b>	10...30 VDC
<b>Output resistance R<sub>a</sub></b>	Open collector
<b>Rated insulation voltage U<sub>i</sub></b>	75 V DC
<b>Rated operating current I<sub>e</sub></b>	100 mA
<b>Rated operating voltage U<sub>e</sub> DC</b>	24 V
<b>Rated short circuit current</b>	100 A
<b>Ready delay t<sub>v</sub> max.</b>	15 ms
<b>Residual current I<sub>r</sub> max.</b>	50 $\mu$ A
<b>Ripple max. (% of U<sub>e</sub>)</b>	10 %
<b>Switching frequency</b>	2000 Hz
<b>Utilization category</b>	DC -13
<b>Voltage drop static max.</b>	3 V

### Environmental conditions

<b>Ambient temperature</b>	-25...70 °C
<b>Contamination scale</b>	3
<b>EN 60068-2-27, Shock</b>	Half-sinus, 30 g <sub>n</sub> , 11 ms
<b>EN 60068-2-6, Vibration</b>	55 Hz, amplitude 1 mm, 3x30 min
<b>IP rating</b>	IP67

### Functional safety

<b>MTTF (40 °C)</b>	830 a
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Inductive Sensors  
**BES Q05AC-PSC15B-S26G**  
Order Code: BES01RP

# BALLUFF

## Interface

Switching output PNP normally open (NO)

## Material

Housing material 1.4305 stainless steel  
Material sensing surface PBT

## Mechanical data

Dimension 33 x 5 x 5 mm  
Installation for flush mounting  
Size 5x5

## Range/Distance

Assured operating distance  $S_a$  1.2 mm  
Hysteresis H max. (% of  $S_r$ ) 15.0 %  
Rated operating distance  $S_n$  1.5 mm  
Real switching distance  $s_r$  1.5 mm  
Repeat accuracy max. (% of  $S_r$ ) 10.0 %  
Temperature drift max. (% of  $S_r$ ) 20 %  
Tolerance  $S_r$   $\pm 10$  %

## Remarks

ESD requirements met if housing is grounded.  
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

