



1) Sensing surface



**Basic features**

Approval/Conformity	CE EAC WEEE
Basic standard	IEC 60947-5-2
Version	Inductive

**Display/Operation**

Function indicator	yes
Power indicator	no

**Electrical connection**

Connection type	1. Switch position: Screw terminals
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

**Electrical data**

Load capacitance max. at Ue	1 µF
No-load current I <sub>0</sub> max., undamped	25 mA
Output resistance R <sub>a</sub>	2.0 kOhm + D + LED
Protection class	II
Rated insulation voltage U <sub>i</sub>	250 V AC
Rated operating current I <sub>e</sub>	130 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	10 ms
Residual current I <sub>r</sub> max.	80 µA
Ripple max. (% of U <sub>e</sub> )	15 %
Utilization category	DC -13
Voltage drop static max.	3.5 V

**Environmental conditions**

Ambient temperature	-25...70 °C
Contamination scale	3
Protection degree	IP67

Mechanical Cam Switches  
**BES 516-340-H2-Y**  
Order Code: BES01ET

# BALLUFF

## Material

Housing material	Aluminum, Anodized
Housing material, surface protection	Anodized
Material sensing surface	PA 12

## Mechanical data

Connection cross-section	2.5 mm <sup>2</sup>
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	NPN normally closed (NC)

## Range/Distance

Assured operating distance Sa	1. Switch position: 4 mm
Hysteresis H max. (% of Sr)	15.0 %
Range	5 mm
Rated operating distance Sn	1. Switch position: 5 mm
Real switching distance sr	5 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %

## Remarks

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

## Wiring Diagrams

