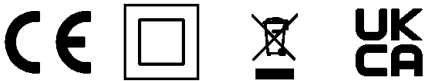


1) Sensing surface



Basic features

Approval/Conformity	CE UKCA 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 ₀ max., undamped	15 mA
Output resistance R _a	2.0 kOhm + D + LED
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	130 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	10 ms
Residual current I _r max.	80 µA
Ripple max. (% of U _e)	15 %
Utilization category	DC -13
Voltage drop static max.	3.5 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
IP rating	IP67

Mechanical Cam Switches
BES 516-344-H2-Y
Order Code: **BES01ZK**

BALLUFF

Functional safety

MTTF (40 °C) 1620 a

Interface

Cable fitting, thread size M16x1.5
Switching output NPN normally open (NO)

Material

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

Mechanical data

Connection cross-section 2.5 mm²
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

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.
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

