



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	M8x1-Male, 3-pin
Connection type	1. Switch position: Connector
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	12 mA
Output resistance R _a	2.0 kOhm + D + LED
Rated insulation voltage U _i	75 V DC
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 516-346-H2-Y-S49
Order Code: BES01FF



Functional safety

MTTF (40 °C) 1620 a

Interface

Switching output PNP normally open (NO)

Material

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

Mechanical data

Dimension 55 x 22 x 48 mm
 Installation for flush mounting

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

With connector, e.g. BKS-S 49-... total length = switch length +12 mm.
 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

