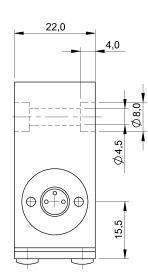
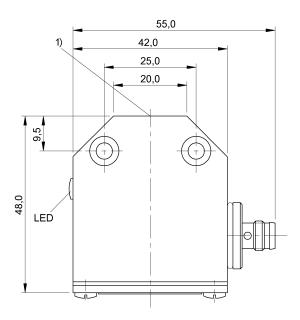
# **Mechanical Cam Switches** BES 516-346-H2-Y-S49 **Order Code: BES01FF**







## 1) Sensing surface



#### **Basic features**

Approval/Conformity Basic standard Version	CE UKCA WEEE IEC 60947-5-2 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 lo max., undamped	12 mA
Output resistance Ra	2.0 kOhm + D + LED
Rated insulation voltage Ui	75 V DC
Rated operating current le	130 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	10 ms
Residual current Ir max.	80 μΑ
Ripple max. (% of Ue)	15 %
Utilization category	DC -13
Voltage drop static max.	3.5 V

## **Environmental conditions**

Ambient temperature	-2570
Contamination scale	3
IP rating	IP67

°C

# Mechanical Cam Switches BES 516-346-H2-Y-S49 Order Code: BES01FF



Functional safety Mecha		Mechanical data	anical data	
MTTF (40 °C)	1620 a	Dimension Installation	55 x 22 x 48 mm for flush mounting	
Interface				
Switching output	PNP normally open (NO)	Range/Distance		
		Assured operating distance Sa	1. Switch position: 4 mm	
Material		Hysteresis H max. (% of Sr)	15.0 %	
		Range	5 mm	
Housing material	Aluminium, Anodized	Rated operating distance Sn	1. Switch position: 5 mm	
Housing material, surface protection		Real switching distance sr	5 mm	
Material sensing surface	PA 12	Repeat accuracy max. (% of Sr)	5.0 %	
urface protection Anodized aluminum	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

