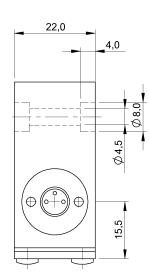
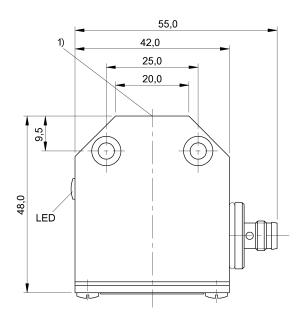
Mechanical Cam Switches BES 516-346-H2-Y-S49 Order Code: BES01FF







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	

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	3		
Ambient temperature	-2570 °C		
Contamination scale	3		

Short-circuit protection

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

