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







### 1) Sensing surface



#### **Basic features**

Approval/Conformity	CE UKCA WEEE
Desis standard	
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 lo max., undamped	15 mA
Output resistance Ra	2.0 kOhm + D + LED
Protection class	II
Rated insulation voltage Ui	250 V AC
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 °C
Contamination scale	3
IP rating	IP67

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

# BALLUFF

Functional safety		Mechanical data	
MTTF (40 °C)	1620 a	Connection cross-section	2.5 mm <sup>2</sup>
		Dimension	42 x 22 x 48 mm
Interface		Installation	for flush mounting
	N40.4 E	Tightening torque	34 Nm (M16x1.5)
Cable fitting, thread size Switching output	M16x1.5 NPN normally open (NO)	Tightening torque clamping screw	0.4 Nm
Material		Range/Distance	
	Aluminium, Anodized	Assured operating distance Sa	1. Switch position: 4 mm
Housing material		Hysteresis H max. (% of Sr)	15.0 %
Housing material, surface protectionAnodizedMaterial sensing surfacePA 12		Range	5 mm
	PA 12	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 %
Demerles			
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**

