



1) Reference edge, 2) Mark. Safety switch position



Basic features

Additional features	Special switch
Approval/Conformity	CE UKCA CCC WEEE
Basic standard	IEC 60947-5-1
DIN switch	DIN 43693
Operating principle	1. Switch position: Mechanical
Version	Safety EN 60204-1

Display/Operation

Function indicator	1. Switch position: None
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Electrical connection

Connection type	1. Switch position: Screw terminal
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Electrical data

Continuous current	1. Switch position: 6 A
Rated operating voltage Ue	1. Switch position: 250 V AC
Switching function mechanical	Dual changeover One NO and one NC galvanically isolated Normally open with snap funct. Double-interrupting NC forced-opening per VDE
Switching rate	1. Switch position: 160/min

Environmental conditions

Ambient temperature	-5...85 °C
IP rating	IP67

Functional safety

B10d (EN ISO 13849-1)	BSE 85: 1 mil. switching cycles
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Material

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material contacts	1. Switch position: Silver
Plunger material	1. Switch position: 1.4034 stainless steel

Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1. Switch position: 80 m/min
Distance cam - reference edge	1. Switch position: 4.50...5.00 mm
Flange, feed-through	None
Installation	any
Life expectancy mechanical	1. Switch position: 1 mil. switching operations
Number of switching positions	Roller bearing Mechanical
Plunger style	1st switch position: Roller bearing
Switch actuation force	1. Switch position: 30 N
Switching element	1. Switch position: BSE 85

Mechanical Cam Switches
BNS 813-X512-FL-60-186
Order Code: BNS0036

BALLUFF

Range/Distance

Reproducibility

1. Switch position: ± 0.02 mm

Remarks

X512 = Teflon-free guide bush

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 do not extend the limitation period for claims arising from defects or influence them in any other way.

We call you attention to the fact that the product listed here alone are not considered safety components according to Machine Directive 2006/42/EC Article 2c. It is however possible to construct structures per EN 13849-1 having a high performance level using the products with two channels.

Wiring Diagrams

BSE 85

