



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



### Basic features

Approval/Conformity	CE UKCA CCC WEEE
Basic standard	IEC 60947-5-1
Operating principle	1-2. Switch position: Mechanical
Version	Safety EN 60204-1

### Display/Operation

Function indicator	1-2. Switch position: None
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### Electrical connection

Connection type	1-2. Switch position: Screw terminal
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### Electrical data

Continuous current	1-2. Switch position: 6 A
Rated operating voltage Ue	1-2. Switch position: 250 V AC
Switching function mechanical	NC forced-opening per VDE Double-interrupting Normally open with snap funct. galvanically isolated One NO and one NC Dual changeover
Switching rate	1-2. 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	1-2. Switch position: Silver
Plunger material	1-2. Switch position: 1.4034 stainless steel

Mechanical Cam Switches  
**BNS 813-B02-R12-61-A-22-02**  
 Order Code: BNS02FW

**BALLUFF**

**Mechanical data**

<b>Approach direction</b>	longitudinal, parallel to attachment surface
<b>Approach speed</b>	1-2. Switch position: 60 m/min
<b>Dimension</b>	79 x 36 x 73 mm
<b>Distance cam - reference edge</b>	1-2. Switch position: 4.50...5.00 mm
<b>Flange, feed-through</b>	None
<b>Installation</b>	Vertical
<b>Life expectancy mechanical</b>	1-2. Switch position: 1 mil. switching operations

<b>Number of switching positions</b>	2x Roller Mechanical
<b>Plunger spacing 1st switch position</b>	12 mm
<b>Plunger style</b>	1-2nd switch position: Roller
<b>Switch actuation force</b>	1-2. Switch position: 30 N
<b>Switching element</b>	1-2. Switch position: BSE 85

**Range/Distance**

<b>Repeatability</b>	1-2. Switch position: ±0.02 mm
<b>Switch position spacing</b>	12 mm

**Wiring Diagrams (Schematic)**

