



1) Reference edge, 2) Sealing ring, 3) Cable passage, 4) Mark. Safety switch position



### Display/Operation

**Function indicator** 1-2. Switch position: None

### Electrical connection

**Connection type** 1-2. Switch position: Screw terminal

### 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  
**Switching rate** 1-2. Switch position: 300/min

### Environmental conditions

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

### Functional safety

**B10d (EN ISO 13849-1)** BSE 61: 30 mil. Switching operations

### General data

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

### Material

**Housing material** Aluminum  
**Housing material, surface protection** Anodized  
**Material contacts** 1-2. Switch position: Silver  
**Plunger material** 1-2. Switch position: Stainless steel (1.4034)

Mechanical Cam Switches  
**BNS 813-D02-D12-62-12-02**  
Order Code: BNS01A6

# BALLUFF

## Mechanical data

<b>Approach direction</b>	longitudinal, parallel to attachment surface
<b>Approach speed</b>	1-2. Switch position: 40 m/min
<b>Dimension</b>	120 x 64 x 64 mm
<b>Distance cam - reference edge</b>	1-2. Switch position: 4.50...5.00 mm
<b>Flange, feed-through</b>	2 threaded exit M20
<b>Installation</b>	Vertical
<b>Life expectancy mechanical</b>	1-2. Switch position: 30 million Switching operations

<b>Number of switching positions</b>	2x Chisel
<b>Plunger spacing 1st switch position</b>	30 mm
<b>Plunger style</b>	1-2nd switch position: Chisel
<b>Switch actuation force</b>	1-2. Switch position: 15 N
<b>Switching element</b>	1-2. Switch position: BSE 61

## Range/Distance

<b>Reproducibility</b>	1-2. Switch position: $\pm 0.002$ mm
<b>Switch position spacing</b>	12 mm

## Wiring Diagrams

BSE 61

