



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



**Basic features**

Approval/Conformity	CE WEEE EAC
Basic standard	IEC 60947-5-1
Operating principle	1-6. Switch position: Mechanical
Version	Safety EN 60204-1

**Display/Operation**

Function indicator	1-6. Switch position: None
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**Electrical connection**

Connection type	1-6. Switch position: Screw terminal
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**Electrical data**

Continuous current	1-6. Switch position: 6 A
Rated operating voltage Ue	1-6. Switch position: 250 V AC
Switching rate	1-2. Switch position: 160/min 3-6. Switch position: 300/min

**Environmental conditions**

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

**Functional safety**

B10d (EN ISO 13849-1)	BSE 30.0: 30 mil. Switching operations BSE 85: 1 mil. Switching operations
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**Material**

Housing material	Aluminum, Anodized
Housing material, surface protection	Anodized
Material contacts	1-2. Switch position: Silver 3-6. Switch position: Silver, gold plated
Plunger material	1-6. Switch position: Stainless steel (1.4034)

**Mechanical Cam Switches**  
**BNS 813-D06-R12-62-20-02**  
**Order Code: BNS052Y**



**Mechanical data**

<b>Approach direction</b>	longitudinal, parallel to attachment surface
<b>Approach speed</b>	1-6. Switch position: 60 m/min
<b>Distance cam - reference edge</b>	1-6. 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: 1 million Switching operations 3-6. Switch position: 30 million Switching operations

<b>Number of switching positions</b>	6x Roller
<b>Plunger style</b>	1-6th switch position: Roller
<b>Switch actuation force</b>	1-2. Switch position: 30 N 3-6. Switch position: 20 N
<b>Switching element</b>	1-2. Switch position: BSE 85 3-6. Switch position: BSE 30.0

**Range/Distance**

<b>Reproducibility</b>	1-2. Switch position: $\pm 0.02$ mm 3-6. Switch position: $\pm 0.01$ mm
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**Wiring Diagrams**

