



1) Reference edge, 2) Sealing ring, 3) Function indicator FC, 4) Cable passage, 5) Anti-crystallization plunger, 6) Mark.  
 Safety switch position



### Basic features

<b>Approval/Conformity</b>	CE WEEE EAC
<b>Basic standard</b>	IEC 60947-5-1
<b>DIN switch</b>	DIN 43697
<b>Operating principle</b>	1-4. Switch position: Mechanical
<b>Version</b>	Safety EN 60204-1

### Display/Operation

<b>Function indicator</b>	1-4. Switch position: FC - 6...24 V
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### Electrical connection

<b>Connection type</b>	1-4. Switch position: Screw terminal
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### Electrical data

<b>Continuous current</b>	1-4. Switch position: 6 A
<b>Rated operating voltage Ue</b>	1-4. Switch position: 250 V AC
<b>Switching function mechanical</b>	NC forced-opening per VDE Double-interrupting Normally open with snap funct. galvanically isolated One NO and one NC Dual changeover
<b>Switching rate</b>	1-4. Switch position: 160/min

### Environmental conditions

<b>Ambient temperature</b>	-5...85 °C
<b>IP rating</b>	IP67

### Functional safety

<b>B10d (EN ISO 13849-1)</b>	BSE 85: 1 mil. Switching operations
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### Material

<b>Housing material</b>	Aluminum, Anodized
<b>Housing material, surface protection</b>	Anodized
<b>Material contacts</b>	1-4. Switch position: Silver
<b>Plunger material</b>	1-4. Switch position: Stainless steel (1.4034)

**Mechanical Cam Switches**  
**BNS 813-D04-E12-100-22-04-FC**  
**Order Code: BNS00Z7**



**Mechanical data**

<b>Approach direction</b>	longitudinal, parallel to attachment surface
<b>Approach speed</b>	1-4. Switch position: 30 m/min
<b>Dimension</b>	120 x 90 x 83 mm
<b>Distance cam - reference edge</b>	1-4. Switch position: 4.50...5.00 mm
<b>Flange, feed-through</b>	2 threaded exit M25
<b>Installation</b>	Vertical
<b>Life expectancy mechanical</b>	1-4. Switch position: 1 million Switching operations

<b>Number of switching positions</b>	4x E-Chisel
<b>Plunger spacing 1st switch position</b>	30 mm
<b>Plunger style</b>	1-4th switch position: E-chisel
<b>Switch actuation force</b>	1-4. Switch position: 30 N
<b>Switching element</b>	1-4. Switch position: BSE 85

**Range/Distance**

<b>Reproducibility</b>	1-4. Switch position: ±0.02 mm
<b>Switch position spacing</b>	12 mm

**Wiring Diagrams**

BSE 85

