



1) Reference edge, 2) Sealing ring, 3) Function indicator FD/FE/LL, 4) Cable passage, 5) Mark. Safety switch position



**Basic features**

<b>Approval/Conformity</b>	CE CCC WEEE
<b>Basic standard</b>	IEC 60947-5-1
<b>DIN switch</b>	DIN 43697
<b>Operating principle</b>	1-3. Switch position: Mechanical
<b>Version</b>	Safety EN 60204-1

**Display/Operation**

<b>Function indicator</b>	1-3. Switch position: FD - 6...60 V
---------------------------	-------------------------------------

**Electrical connection**

<b>Connection type</b>	1-3. Switch position: Screw terminal
------------------------	--------------------------------------

**Electrical data**

<b>Continuous current</b>	1-3. Switch position: 6 A
<b>Rated operating voltage Ue</b>	1-3. Switch position: 250 V AC
<b>Switching function mechanical</b>	Double-interrupting NC forced-opening per VDE
<b>Switching rate</b>	1-3. Switch position: 300/min

**Environmental conditions**

<b>Ambient temperature</b>	-5...85 °C
<b>Protection degree</b>	IP67

**Functional safety**

<b>B10d (EN ISO 13849-1)</b>	BSE 61: 30 mil. Switching operations
------------------------------	--------------------------------------

**Material**

<b>Housing material</b>	Aluminum, Anodized
<b>Housing material, surface protection</b>	Anodized
<b>Material contacts</b>	1-3. Switch position: Silver
<b>Plunger material</b>	1-3. Switch position: Stainless steel (1.4034)

**Mechanical data**

<b>Approach direction</b>	longitudinal, parallel to attachment surface
<b>Approach speed</b>	1-3. Switch position: 60 m/min
<b>Dimension</b>	120 x 80 x 85 mm
<b>Distance cam - reference edge</b>	1-3. 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>	1-3. Switch position: 30 million Switching operations
<b>Number of switching positions</b>	3x Roller
<b>Plunger spacing 1st switch position</b>	30 mm
<b>Plunger style</b>	1-3rd switch position: Roller
<b>Switch actuation force</b>	1-3. Switch position: 15 N
<b>Switching element</b>	1-3. Switch position: BSE 61

Range/Distance

Reproducibility  
Switch position spacing

1-3. Switch position:  $\pm 0.01$  mm  
12 mm

## Wiring Diagrams

BSE 61

