

1) Reference edge, 2) Function indicator FD/FE/LL



### Basic features

<b>Approval/Conformity</b>	CE WEEE EAC
<b>Basic standard</b>	IEC 60947-5-1
<b>DIN switch</b>	DIN 43693
<b>Operating principle</b>	1. Switch position: Mechanical
<b>Version</b>	Snap contact

### Display/Operation

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

<b>Connection</b>	M12x1-Flange male, 4-pin, A-coded
<b>Connection type</b>	1. Switch position: Connector

### Electrical data

<b>Continuous current</b>	1. Switch position: 4 A
<b>Rated operating voltage Ue</b>	1. Switch position: 250 V AC
<b>Switching function mechanical</b>	Double-interrupting galvanically isolated One NO and one NC Dual changeover
<b>Switching rate</b>	1. Switch position: 300/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 30.0: 30 mil. switching cycles
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### Material

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

**Mechanical Cam Switches**  
**BNS 819-FD-60-101-FD-S4R**  
**Order Code: BNS000C**



**Mechanical data**

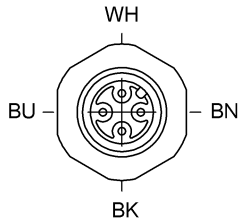
<b>Approach direction</b>	lateral or at right angles to mounting surface
<b>Approach speed</b>	1. Switch position: 40 m/min
<b>Distance cam - reference edge</b>	1. Switch position: 4.50...5.00 mm
<b>Flange, feed-through</b>	None
<b>Installation</b>	any
<b>Life expectancy mechanical</b>	1. Switch position: 30 million Switching operations

<b>Number of switching positions</b>	1x Chisel
<b>Plunger style</b>	1st switch position: Chisel
<b>Switch actuation force</b>	1. Switch position: 20 N
<b>Switching element</b>	1. Switch position: BSE 30.0

**Range/Distance**

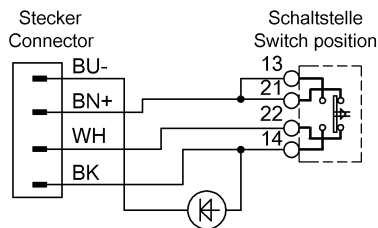
<b>Reproducibility</b>	1. Switch position: ±0.002 mm
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**Connector Drawings**



View of connector side

**Wiring Diagrams**



**Achtung: Stecker ohne Schutzleiter! Schutzklasse III (VDE 0160)**  
**Attention: No groundwire! Protection Class III (VDE 0160)**