

1) Reference edge



### Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-1
Operating principle	1-2. Switch position: Mechanical
Version	Snap contact

### Display/Operation

Function indicator	1-2. Switch position: None
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### Electrical connection

Connection	M12x1-Flange male, 5-pin
Connection type	1. Switch position: Connector

### Electrical data

Connector, order code	BKS-S 80-G-PU-05 (straight) BKS-S 80-W-PU-05 (right-angle)
Continuous current	1-2. Switch position: 4 A
Rated operating voltage Ue	1-2. Switch position: 250 V AC
Switching function mechanical	Single-pin changeover
Switching rate	1-2. Switch position: 200/min

### Environmental conditions

Ambient temperature	-5...85 °C
Protection degree	IP67

### Functional safety

B10d (EN ISO 13849-1)	BSE 69.1: 10 mil. Switching operations
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### Material

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

### Mechanical data

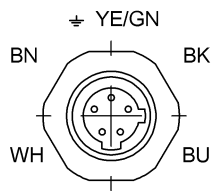
Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-2. Switch position: 20 m/min
Dimension	40 x 34 x 48 mm
Distance cam - reference edge	1-2. Switch position: 2.30...2.80 mm
Flange, feed-through	None
Installation	Vertical
Life expectancy mechanical	1-2. Switch position: 10 million Switching operations
Number of switching positions	2x Chisel
Plunger spacing 1st switch position	13 mm
Plunger style	1-2nd switch position: Chisel
Switch actuation force	1-2. Switch position: 8 N
Switching element	1-2. Switch position: BSE 69.1

Range/Distance

Reproducibility  
 Switch position spacing

1-2. Switch position:  $\pm 0.02$  mm  
 8 mm

## Connector Drawings



View of connector side

## Wiring Diagrams

