

1) Reference edge



**Basic features**

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

**Display/Operation**

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

**Environmental conditions**

Ambient temperature	-5...85 °C
IP rating	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. Switch position: Silver
Plunger material	1. Switch position: Stainless steel (1.4034)

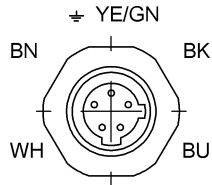
**Mechanical data**

Approach direction	lateral or at right angles to mounting surface
Approach speed	1. Switch position: 60 m/min
Dimension	42 x 22 x 43 mm
Distance cam - reference edge	1. Switch position: 2.30...2.80 mm
Flange, feed-through	None
Installation	any
Life expectancy mechanical	1. Switch position: 10 million Switching operations
Number of switching positions	1x Roller
Plunger spacing 1st switch position	11 mm
Plunger style	1st switch position: Roller
Switch actuation force	1. Switch position: 8 N
Switching element	1. Switch position: BSE 69.1

**Range/Distance**

Reproducibility	1. Switch position: ±0.05 mm
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## Connector Drawings



View of connector side

## Wiring Diagrams

