

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



Basic features

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

Display/Operation

Function indicator	1. Switch position: FD - 6...60 V
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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. Switch position: 4 A
Rated operating voltage Ue	1. Switch position: 250 V AC
Switching function mechanical	Double-interrupting galvanically isolated One NO and one NC Dual changeover
Switching rate	1. Switch position: 300/min

Environmental conditions

Ambient temperature	-5...85 °C
IP rating	IP67

Functional safety

B10d (EN ISO 13849-1)	BSE 30.0: 30 mil. Switching operations
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Material

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

Mechanical Cam Switches
BNS 819-FD-60-101-FD-S80R
Order Code: BNS000E

BALLUFF

Mechanical data

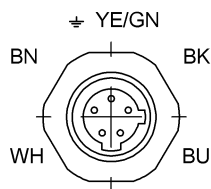
Approach direction	lateral or at right angles to mounting surface
Approach speed	1. Switch position: 40 m/min
Dimension	74 x 28 x 76.5 mm
Distance cam - reference edge	1. Switch position: 4.50...5.00 mm
Flange, feed-through	None
Installation	any
Life expectancy mechanical	1. Switch position: 30 million Switching operations

Number of switching positions	1x Chisel
Plunger spacing 1st switch position	14 mm
Plunger style	1st switch position: Chisel
Switch actuation force	1. Switch position: 20 N
Switching element	1. Switch position: BSE 30.0

Range/Distance

Reproducibility	1. Switch position: ±0.002 mm
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Connector Drawings



View of connector side

Wiring Diagrams

