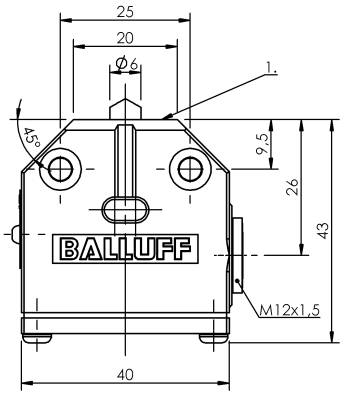
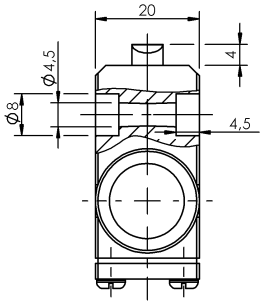
Mechanical Cam Switches

BNS 819-99-D-10
Order Code: BNS003U





1) Reference edge

Basic features

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

Display/Operation

Function indicator	1. Switch position: None

Electrical connection

Connection type	1. Switch position: Solder connection

Electrical data

Continuous current	1. Switch position: 5 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
Protection degree	IP67

Functional safety

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

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: 20 m/min
Dimension	40 x 20 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 Chisel
Plunger spacing 1st switch position	10 mm
Plunger style	1st switch position: Chisel
Switch actuation force	1. Switch position: 8 N
Switching element	1. Switch position: BSE 69.1

Range/Distance

Reproducibility	1. Switch position: ±0.02 mm

Wiring Diagrams