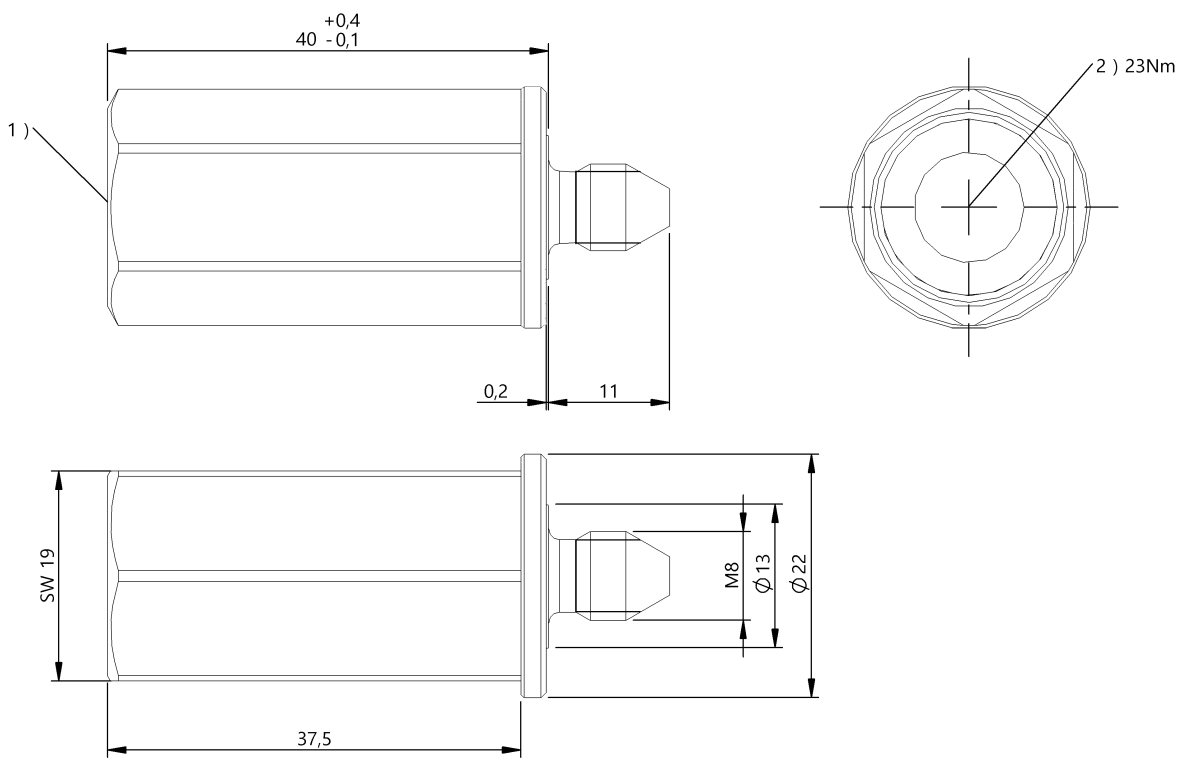
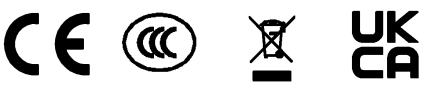


Mechanical Cam Switches
BNS 813-FR-60-186-S80R
Order Code: BNS0033



1) Reference edge, 2) Mark. Safety switch position



Basic features

DIN switch	DIN 43693
Operating principle	1. Switch position: Mechanical
Version	Safety EN 60204-1

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

Continuous current	1. Switch position: 4 A
Rated operating voltage Ue	1. Switch position: 250 V AC
Switching rate	1. Switch position: 160/min

Environmental conditions

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

Material

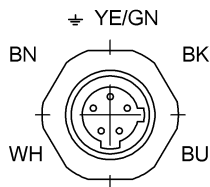
Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material contacts	1. Switch position: Fine silver
Plunger material	1. Switch position: 1.4034 stainless steel

Mechanical Cam Switches
BNS 813-FR-60-186-S80R
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Mechanical data		Number of switching positions		Roller Mechanical
Approach direction	longitudinal, parallel to attachment surface	Plunger spacing 1st switch position	14 mm	
Approach speed	1. Switch position: 60 m/min	Plunger style	1st switch position: Roller 1st switch position: Roller	
Dimension	74 x 28 x 74 mm	Switch actuation force	1. Switch position: 30 N	
Distance cam - reference edge	1. Switch position: 4.50...5.00 mm	Switching element	1. Switch position: BSE 85	
Flange, feed-through	None	Range/Distance		
Installation	any			
Life expectancy mechanical	1. Switch position: 1 mil. switching operations			
		Reproducibility	1. Switch position: ±0.02 mm	

Connector Drawings



View of connector side

Wiring Diagrams

