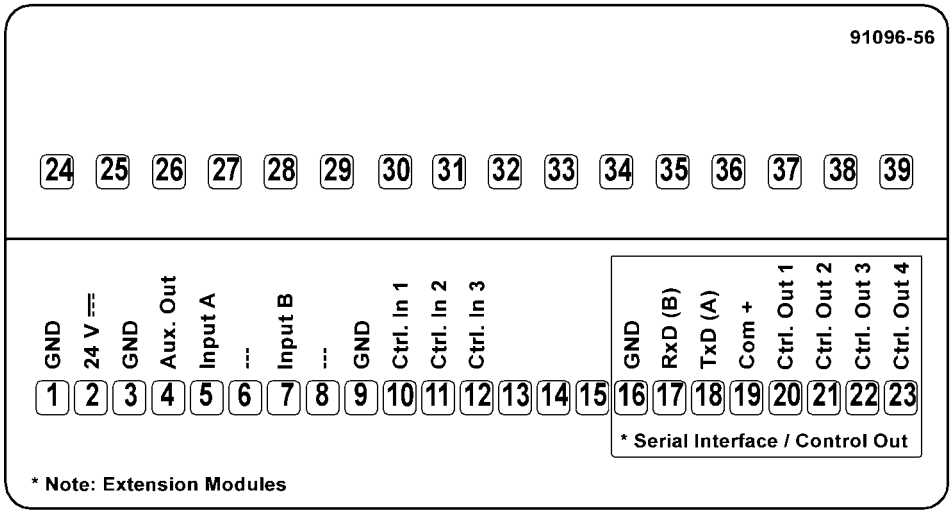
AbN
automation

Mechanical Cam Switches

BNS 813-B04-D12-72-20-02
Order Code: BNS04MC



1) Reference edge, 2) 1st pos., 3) Mark. Safety switch position

Basic features

Approval/Conformity	CE UKCA CCC WEEE
Basic standard	IEC 60947-5-1
Operating principle	1-4. Switch position: Mechanical
Version	Safety EN 60204-1

Display/Operation

Function indicator	1-4. Switch position: None

Electrical connection

Connection type	1-4. Switch position: Screw terminal

Electrical data

Continuous current	1-4. Switch position: 6 A
Rated operating voltage Ue	1-4. Switch position: 250 V AC
Switching rate	1-2. Switch position: 160/min 3-4. 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 cycles BSE 85: 1 mil. switching cycles

Material

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material contacts	1-2. Switch position: Silver 3-4. Switch position: Silver, gold plated
Plunger material	1-4. Switch position: 1.4034 stainless steel

Mechanical data

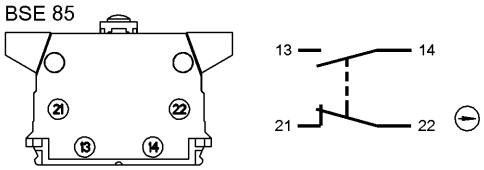
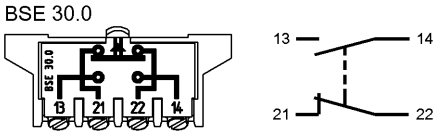
Approach direction	Vertical to mounting surface
Approach speed	1-4. Switch position: 40 m/min
Distance cam - reference edge	1-4. Switch position: 2.50...3.00 mm
Flange, feed-through	1 threaded exit M25
Installation	Horizontal
Life expectancy mechanical	1-2. Switch position: 1 mil. switching operations 3-4. Switch position: 30 mil. switching operations
Number of switching positions	4x Chisel Mechanical
Plunger style	1-4th switch position: Chisel
Switch actuation force	1-2. Switch position: 30 N 3-4. Switch position: 20 N
Switching element	1-2. Switch position: BSE 85 3-4. Switch position: BSE 30.0

Range/Distance

Reproducibility	1-2. Switch position: ±0.02 mm 3-4. Switch position: ±0.002 mm

Wiring Diagrams

BSE 85



BSE 30.0