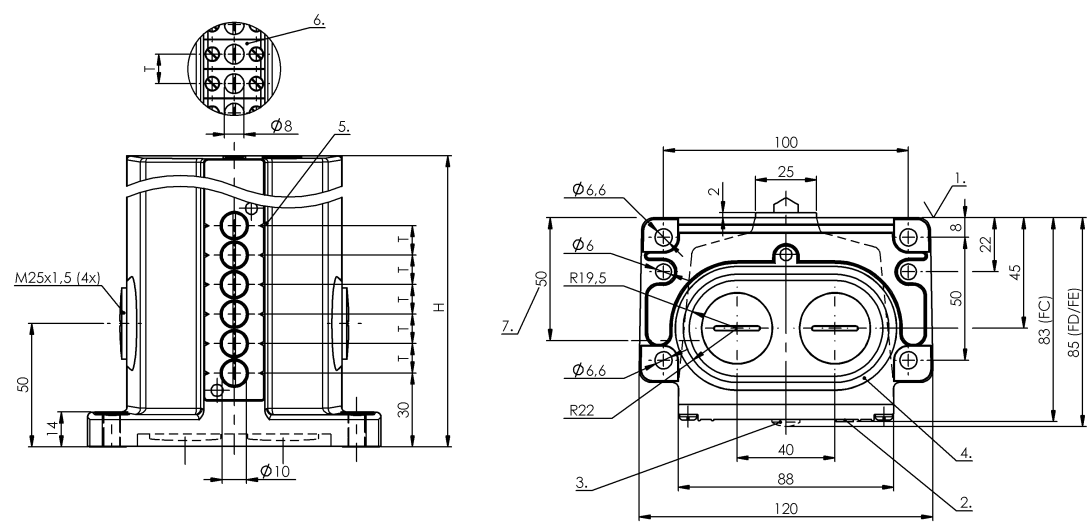




1) Reference edge, 2) Function indicator FC, 3) Function indicator FD/FE/LL, 4) Sealing ring, 5) Mark. Safety switch position, 6) Anti-crystallization plunger, 7) Cable passage



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 function mechanical NC forced-opening per VDE Double-interrupting
Switching rate 1-4. Switch position: 300/min

Environmental conditions

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

Functional safety

B10d (EN ISO 13849-1) BSE 61: 30 mil. Switching operations

General data

Approval/Conformity CE
Basic standard IEC 60947-5-1
DIN switch DIN 43697
Operating principle 1-4. Switch position: Mechanical
Version Safety EN 60204-1

Material

Housing material Aluminum
Housing material, surface protection Anodized
Material contacts 1-4. Switch position: Silver
Plunger material 1-4. Switch position: Stainless steel (1.4034)

Mechanical Cam Switches
BNS 813-D04-L12-100-12-04
Order Code: BNS00ZJ

BALLUFF

Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-4. Switch position: 120 m/min
Dimension	120 x 90 x 83 mm
Distance cam - reference edge	1-4. Switch position: 4.50...5.00 mm
Flange, feed-through	2 threaded exit M25
Installation	Vertical
Life expectancy mechanical	1-4. Switch position: 30 million Switching operations
Number of switching positions	4x Roller bearing

Plunger spacing 1st switch position	30 mm
Plunger style	1-4th switch position: Roller bearing 1-4th switch position: Roller bearing
Switch actuation force	1-4. Switch position: 15 N
Switching element	1-4. Switch position: BSE 61

Range/Distance

Reproducibility	1-4. Switch position: ± 0.01 mm
Switch position spacing	12 mm

Wiring Diagrams

BSE 61

