

1) Reference edge, 2) Sensing surface, 3) Sealing ring, 4) Cable passage, 5) Function indicator FD/FE/LL, 6) Mark. Safety switch position



Basic features

Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-1 IEC 60947-5-2
DIN switch	DIN 43697
Operating principle	1-3. Switch position: Mechanical 4. Switch position: Inductive
Version	Safety EN 60204-1

Display/Operation

Function indicator	1-3. Switch position: None 4. Switch position: Optical fiber
---------------------------	---

Electrical connection

Connection type	1-4. Switch position: Screw terminal
------------------------	--------------------------------------

Electrical data

Continuous current	1-3. Switch position: 6 A 4. Switch position: 0.2 A
Rated operating voltage Ue	1-3. Switch position: 250 V AC 4. Switch position: 24 V DC
Switching function mechanical	Dual changeover One NO and one NC galvanically isolated Double-interrupting NC forced-opening per VDE
Switching rate	1-3. Switch position: 160/min

Environmental conditions

Ambient temperature	-5...70 °C
IP rating	IP67

Functional safety

B10d (EN ISO 13849-1)	BSE 85: 1 mil. switching cycles
MTTF (40 °C)	BES 517-110: 490 a

Material

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material contacts	1-3. Switch position: Fine silver
Plunger material	1-3. Switch position: 1.4034 stainless steel

Mechanical Cam Switches
BNS 813-D04-L12-100-55-0622
Order Code: BNS00ZU



Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-3. Switch position: 80 m/min
Dimension	120 x 90 x 87 mm
Distance cam - reference edge	1-3. Switch position: 4.50...5.00 mm
Flange, feed-through	2 threaded exit M25
Installation	Vertical
Life expectancy mechanical	1-3. Switch position: 1 mil. switching operations
Number of switching positions	3x Roller bearing Mechanical + Inductive

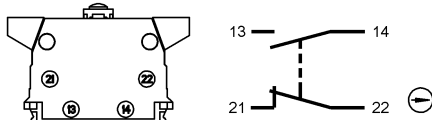
Plunger spacing 1st switch position	30 mm
Plunger style	1-3rd switch position: Roller bearing
Switch actuation force	1-3. Switch position: 30 N
Switching element	1-3. Switch position: BSE 85 4. Switch position: BES 517-110

Range/Distance

Assured operating distance Sa	4. Switch position: 1.6 mm
Rated operating distance Sn	4. Switch position: 2.0 mm
Reproducibility	1-3. Switch position: ±0.01 mm
Switch position spacing	12 mm

Wiring Diagrams

BSE 85



PA

