

1) Reference edge, 2) Sensing surface, 3) Function indicator FD/FE/LL, 4) Mark. Safety switch position



Basic features

Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-1 IEC 60947-5-2
Operating principle	1-2. Switch position: Mechanical 3. Switch position: Inductive
Version	mechanical-inductive

Display/Operation

Function indicator	1-2. Switch position: None 3. Switch position: Optical fiber
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Electrical connection

Connection type	1-3. Switch position: Screw terminal
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Electrical data

Continuous current	1-2. Switch position: 6 A 3. Switch position: 0.2 A
Rated operating voltage Ue	1-2. Switch position: 250 V AC 3. Switch position: 24 V DC
Switching function mechanical	NC forced-opening per VDE Double-interrupting galvanically isolated One NO and one NC Dual changeover
Switching rate	1-2. 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	1-2. Switch position: Fine silver
Plunger material	1-2. Switch position: 1.4034 stainless steel

Mechanical Cam Switches
BNS 813-B03-R12-61-A-55-0648
Order Code: BNS02KF

BALLUFF

Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-2. Switch position: 60 m/min
Dimension	79 x 48 x 73 mm
Distance cam - reference edge	1-2. Switch position: 4.50...5.00 mm
Flange, feed-through	None
Installation	Vertical
Life expectancy mechanical	1-2. Switch position: 1 mil. switching operations
Number of switching positions	2x Roller Mechanical + Inductive

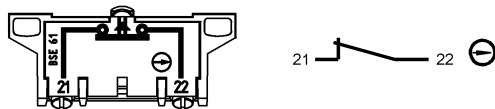
Plunger spacing 1st switch position	12 mm
Plunger style	1-2nd switch position: Roller
Switch actuation force	1-2. Switch position: 30 N
Switching element	1-2. Switch position: BSE 85 3. Switch position: BES 517-110

Range/Distance

Assured operating distance Sa	3. Switch position: 1.6 mm
Rated operating distance Sn	3. Switch position: 2.0 mm
Reproducibility	1-2. Switch position: ±0.01 mm
Switch position spacing	12 mm

Wiring Diagrams

BSE 61



PA

