



1) Reference edge, 2) Sealing ring, 3) Function indicator FD/FE/LL, 4) Cable passage, 5) Sensing surface



Basic features

Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-1 IEC 60947-5-2
DIN switch	DIN 43697
Operating principle	1-2. Switch position: Mechanical 3-6. Switch position: Inductive
Version	Snap contact

Display/Operation

Function indicator	1-2. Switch position: FD - 6...60 V 3-6. Switch position: Optical fiber
---------------------------	--

Electrical connection

Connection type	1-6. Switch position: Screw terminal
------------------------	--------------------------------------

Electrical data

Continuous current	1-2. Switch position: 6 A 3-6. Switch position: 0.2 A
Rated operating voltage Ue	1-2. Switch position: 250 V AC 3-6. Switch position: 24 V DC
Switching function mechanical	Double-interrupting galvanically isolated One NO and one NC Dual changeover
Switching rate	1-2. Switch position: 300/min

Environmental conditions

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

Functional safety

B10d (EN ISO 13849-1)	BSE 30.0: 30 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: Silver, gold plated
Plunger material	1-2. Switch position: 1.4034 stainless steel

Mechanical Cam Switches
BNS 819-D06-D12-100-55-FD-0647
Order Code: BNS04C7

BALLUFF

Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-2. Switch position: 40 m/min
Distance cam - reference edge	1-2. Switch position: 4.50...5.00 mm
Flange, feed-through	2 threaded exit M25
Installation	Vertical
Life expectancy mechanical	1-2. Switch position: 30 mil. switching operations

Number of switching positions	2x Chisel Mechanical + 4x Inductive
Plunger style	1-2nd switch position: Chisel
Switch actuation force	1-2. Switch position: 20 N
Switching element	1-2. Switch position: BSE 30.0 3-6. Switch position: BES 517-110

Range/Distance

Assured operating distance Sa	3-6. Switch position: 1.6 mm
Rated operating distance Sn	3-6. Switch position: 2.0 mm
Reproducibility	1-2. Switch position: ±0.002 mm

Wiring Diagrams

