

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



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: Inductive 4. Switch position: Mechanical |
| Version | Snap contact |

Display/Operation

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|---------------------------|--|
| Function indicator | 1-3. Switch position: Optical fiber 4. Switch position: FD - 6...60 V |
|---------------------------|--|

Electrical connection

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

Electrical data

| | |
|--------------------------------------|---|
| Continuous current | 1-3. Switch position: 0.2 A 4. Switch position: 6 A |
| Rated operating voltage Ue | 1-3. Switch position: 24 V DC 4. Switch position: 250 V AC |
| Switching function mechanical | Dual changeover galvanically isolated One NO and one NC |
| Switching rate | 4. Switch position: 300/min |

Environmental conditions

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|----------------------------|------------|
| 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 | 4. Switch position: Silver, gold plated |
| Plunger material | 4. Switch position: 1.4034 stainless steel |

Mechanical Cam Switches
BNS 819-X747-D04-D12-100-55-FD
Order Code: BNS0362

BALLUFF

Mechanical data

| | |
|--------------------------------------|--|
| Approach direction | longitudinal, parallel to attachment surface |
| Approach speed | 4. Switch position: 40 m/min |
| Distance cam - reference edge | 4. Switch position: 4.50...5.00 mm |
| Flange, feed-through | 2 threaded exit M25 |
| Installation | Vertical |
| Life expectancy mechanical | 4. Switch position: 30 mil. switching operations |
| Plunger style | 4th switch position: Chisel |

Switch actuation force

4. Switch position: 20 N

Switching element

1-3. Switch position: BES 517-110
 4. Switch position: BSE 30.0

Range/Distance

Assured operating distance Sa

1-3. Switch position: 1.6 mm

Range

2 mm

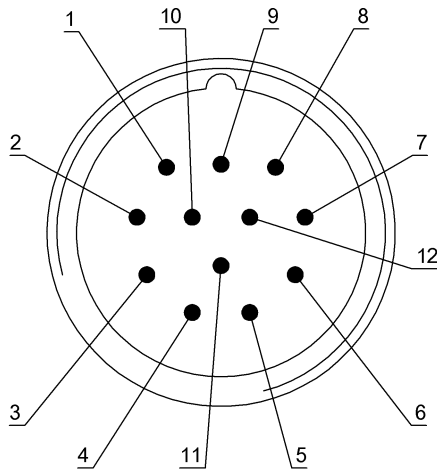
Rated operating distance Sn

1-3. Switch position: 2.0 mm

Reproducibility

4. Switch position: ±0.002 mm

Connector Drawings



1) View towards connector

Wiring Diagrams

