



1) Reference edge



Basic features

| | |
|----------------------------|----------------------------------|
| Additional features | high temperature rated |
| Approval/Conformity | CE UKCA CCC WEEE |
| Basic standard | IEC 60947-5-1 |
| Operating principle | 1-2. Switch position: Mechanical |
| Version | Snap contact |

Display/Operation

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|---------------------------|----------------------------|
| Function indicator | 1-2. Switch position: None |
|---------------------------|----------------------------|

Electrical connection

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|------------------------|-----------------------------------------|
| Connection type | 1-2. Switch position: Solder connection |
|------------------------|-----------------------------------------|

Electrical data

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|--------------------------------------|--------------------------------|
| Continuous current | 1-2. Switch position: 5 A |
| Rated operating voltage Ue | 1-2. Switch position: 250 V AC |
| Switching function mechanical | Single-pin changeover |
| Switching rate | 1-2. Switch position: 200/min |

Environmental conditions

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|----------------------------|-------------|
| Ambient temperature | -5...150 °C |
| IP rating | IP67 |

Functional safety

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|------------------------------|----------------------------------|
| B10d (EN ISO 13849-1) | BSE 79: 10 mil. switching cycles |
|------------------------------|----------------------------------|

Material

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|---------------------------------------------|----------------------------------------------|
| Housing material | Aluminium, Anodized |
| Housing material, surface protection | Anodized |
| Material contacts | 1-2. Switch position: Silver |
| Plunger material | 1-2. Switch position: 1.4034 stainless steel |

Mechanical data

| | |
|--------------------------------------|----------------------------------------------------|
| Approach direction | longitudinal, parallel to attachment surface |
| Approach speed | 1-2. Switch position: 20 m/min |
| Distance cam - reference edge | 1-2. Switch position: 2.30...2.80 mm |
| Flange, feed-through | None |
| Installation | Vertical |
| Life expectancy mechanical | 1-2. Switch position: 10 mil. switching operations |
| Number of switching positions | 2x Chisel Mechanical |
| Plunger style | 1-2nd switch position: Chisel |
| Switch actuation force | 1-2. Switch position: 8 N |
| Switching element | 1-2. Switch position: BSE 79 |

Range/Distance

| | |
|------------------------|--------------------------------|
| Reproducibility | 1-2. Switch position: ±0.02 mm |
|------------------------|--------------------------------|

Mechanical Cam Switches
BNS 819-B02-D08-40-15
Order Code: BNS043N



Remarks

Ambient temperature max.: 180 °C 10h/day

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values do not extend the limitation period for claims arising from defects or influence them in any other way.

We call you attention to the fact that the product listed here alone are not considered safety components according to Machine Directive 2006/42/EC Article 2c. It is however possible to construct structures per EN 13849-1 having a high performance level using the products with two channels.

Wiring Diagrams

