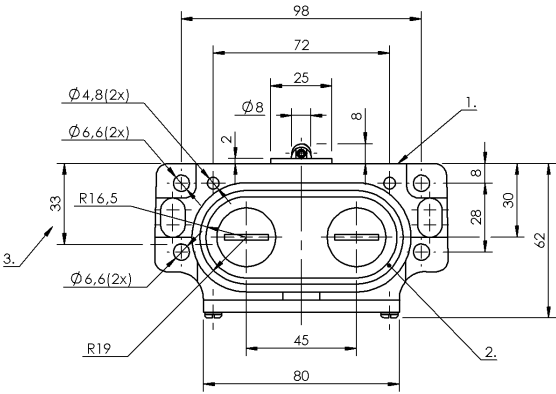
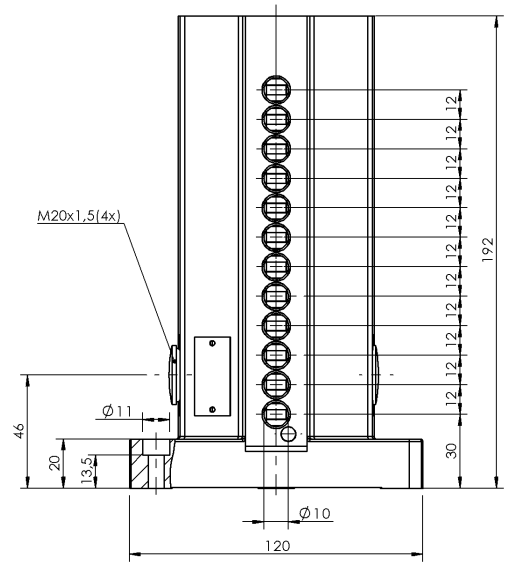
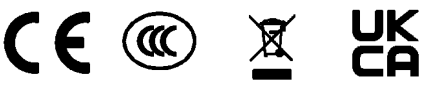


Mechanical Cam Switches  
BNS 819-D12-R12-62-10  
Order Code: BNS01N2



1) Reference edge, 2) Sealing ring, 3) Cable passage



Basic features

|                     |                                   |
|---------------------|-----------------------------------|
| Approval/Conformity | CE<br>UKCA<br>CCC<br>WEEE         |
| Basic standard      | IEC 60947-5-1                     |
| Operating principle | 1-12. Switch position: Mechanical |
| Version             | Snap contact                      |

Display/Operation

|                    |                             |
|--------------------|-----------------------------|
| Function indicator | 1-12. Switch position: None |
|--------------------|-----------------------------|

Electrical connection

|                 |                                       |
|-----------------|---------------------------------------|
| Connection type | 1-12. Switch position: Screw terminal |
|-----------------|---------------------------------------|

Electrical data

|                               |                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------|
| Continuous current            | 1-12. Switch position: 6 A                                                           |
| Rated operating voltage Ue    | 1-12. Switch position: 250 V AC                                                      |
| Switching function mechanical | Double-interrupting<br>galvanically isolated<br>One NO and one NC<br>Dual changeover |
| Switching rate                | 1-12. Switch position: 300/min                                                       |

Environmental conditions

|                     |            |
|---------------------|------------|
| Ambient temperature | -5...85 °C |
| IP rating           | IP67       |

Functional safety

|                       |                                    |
|-----------------------|------------------------------------|
| B10d (EN ISO 13849-1) | BSE 30.0: 30 mil. switching cycles |
|-----------------------|------------------------------------|

Material

|                                      |                                               |
|--------------------------------------|-----------------------------------------------|
| Housing material                     | Aluminium, Anodized                           |
| Housing material, surface protection | Anodized                                      |
| Material contacts                    | 1-12. Switch position: Silver, gold plated    |
| Plunger material                     | 1-12. Switch position: 1.4034 stainless steel |

Mechanical data

|                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| Approach direction                  | longitudinal, parallel to attachment surface        |
| Approach speed                      | 1-12. Switch position: 60 m/min                     |
| Dimension                           | 120 x 192 x 64 mm                                   |
| Distance cam - reference edge       | 1-12. Switch position: 4.50...5.00 mm               |
| Flange, feed-through                | 2 threaded exit M20                                 |
| Installation                        | Vertical                                            |
| Life expectancy mechanical          | 1-12. Switch position: 30 mil. switching operations |
| Number of switching positions       | 12x Roller Mechanical                               |
| Plunger spacing 1st switch position | 30 mm                                               |
| Plunger style                       | 1-12th switch position: Roller                      |
| Switch actuation force              | 1-12. Switch position: 20 N                         |
| Switching element                   | 1-12. Switch position: BSE 30.0                     |

Range/Distance

Reproducibility  
Switch position spacing

1-12. Switch position:  $\pm 0.01$  mm  
12 mm

Wiring Diagrams

BSE 30.0

