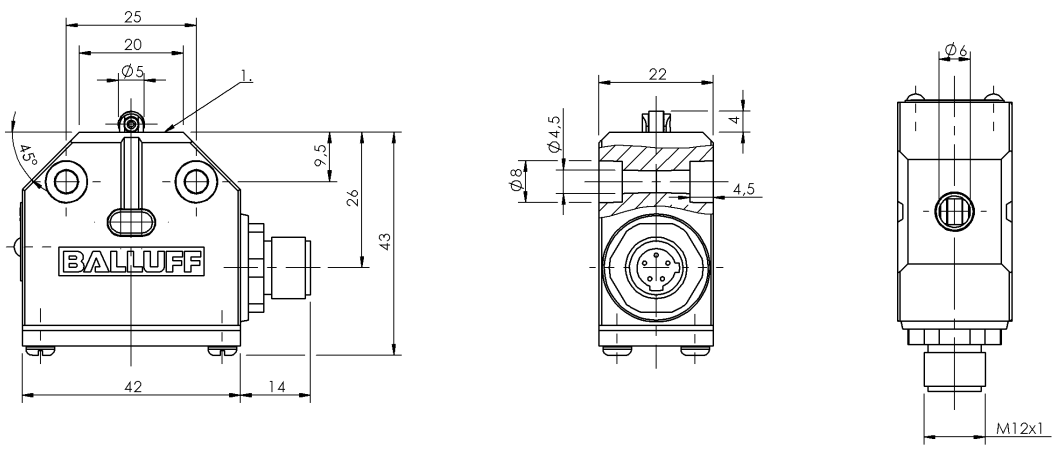
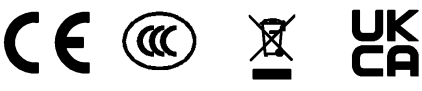


Mechanical Cam Switches  
BNS 819-100-R-12-S80  
Order Code: BNS006L

BALLUFF



1) Reference edge



Basic features

|                     |                                |
|---------------------|--------------------------------|
| Operating principle | 1. Switch position: Mechanical |
|---------------------|--------------------------------|

Display/Operation

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

Electrical connection

|                 |                               |
|-----------------|-------------------------------|
| Connection      | M12x1-Flange male, 5-pin      |
| Connection type | 1. Switch position: Connector |

Electrical data

|                            |                              |
|----------------------------|------------------------------|
| Continuous current         | 1. Switch position: 0.1 A    |
| Rated operating voltage Ue | 1. Switch position: 250 V AC |
| Switching rate             | 1. Switch position: 200/min  |

Environmental conditions

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

Material

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

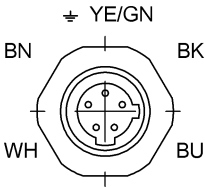
Mechanical data

|                                     |                                                            |
|-------------------------------------|------------------------------------------------------------|
| Approach direction                  | lateral or at right angles to mounting surface             |
| Approach speed                      | 1. Switch position: 60 m/min                               |
| Dimension                           | 42 x 22 x 43 mm                                            |
| Distance cam - reference edge       | 1. Switch position: 2.30...2.80 mm                         |
| Flange, feed-through                | None                                                       |
| Installation                        | any                                                        |
| Life expectancy mechanical          | 1. Switch position: 10 mil. switching operations           |
| Number of switching positions       | Roller Mechanical                                          |
| Plunger spacing 1st switch position | 11 mm                                                      |
| Plunger style                       | 1st switch position: Roller<br>1st switch position: Roller |
| Switch actuation force              | 1. Switch position: 8 N                                    |
| Switching element                   | 1. Switch position: BSE 73.1                               |

Range/Distance

|                 |                              |
|-----------------|------------------------------|
| Reproducibility | 1. Switch position: ±0.05 mm |
|-----------------|------------------------------|

Connector Drawings



View of connector side

Wiring Diagrams

