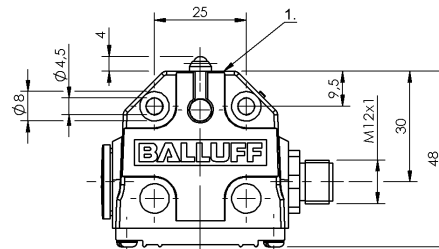
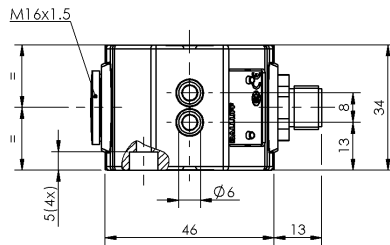


Mechanical Cam Switches
BNS 819-B02-K08-40-12-S80R
Order Code: BNS01PY

BALLUFF



1) Reference edge



Display/Operation

Function indicator 1-2. Switch position: None

Electrical connection

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

Electrical data

Continuous current 1-2. Switch position: 0.1 A
Rated operating voltage U_e 1-2. Switch position: 250 V AC
Switching function mechanical Single-pin changeover
Switching rate 1-2. Switch position: 200/min

Environmental conditions

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

Functional safety

B10d (EN ISO 13849-1) BSE 73.1: 10 mil. Switching operations

General data

Approval/Conformity CE
 WEEE
Basic standard IEC 60947-5-1
Operating principle 1-2. Switch position: Mechanical
Version Snap contact

Material

Housing material Aluminum
Housing material, surface protection Anodized
Material contacts 1-2. Switch position: Gold
Plunger material 1-2. Switch position: Stainless steel (1.4034)

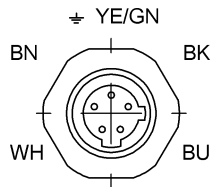
Mechanical data

Approach direction longitudinal, parallel to attachment surface
Approach speed 1-2. Switch position: 9 m/min
Dimension 40 x 34 x 48 mm
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 million Switching operations
Number of switching positions 2x Ball
Plunger spacing 1st switch position 13 mm
Plunger style 1-2nd switch position: Ball
Switch actuation force 1-2. Switch position: 8 N
Switching element 1-2. Switch position: BSE 73.1

Range/Distance

Reproducibility 1-2. Switch position: ±0.03 mm
Switch position spacing 8 mm

Connector Drawings



View of connector side

Wiring Diagrams

