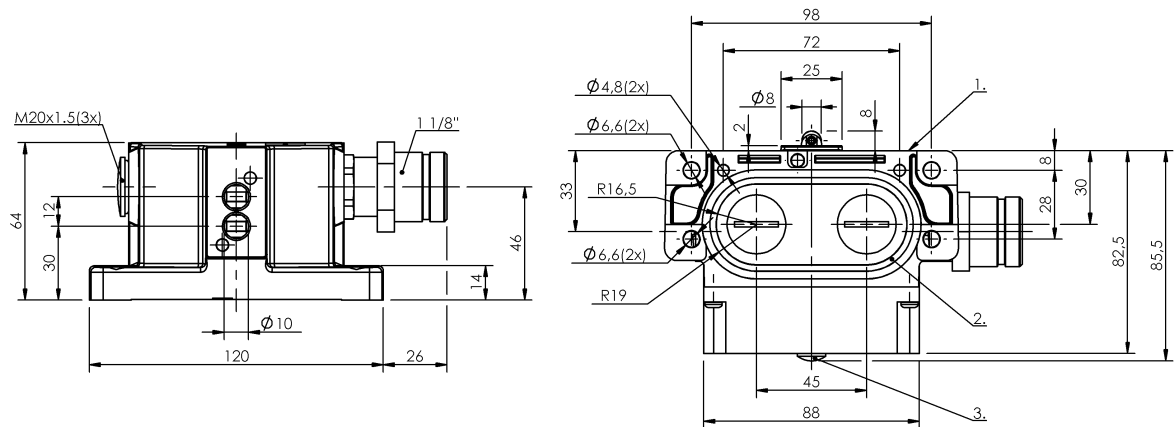


Mechanical Cam Switches
BNS 819-D02-R12-62-10-FD-S90R
Order Code: BNS01HN

BALLUFF



1) Reference edge, 2) Sealing ring, 3) Function indicator FD/FE/LL



Display/Operation

Function indicator 1-2. Switch position: FD - 6...60 V

Electrical connection

Connection 1 1/8"-Flange male, 12-pin
Connection type 1. Switch position: Connector

Electrical data

Continuous current 1-2. Switch position: 5 A
Rated operating voltage Ue 1-2. Switch position: 6...60 V
Switching function mechanical Dual changeover
One NO and one NC
galvanically isolated
Double-interrupting
Switching rate 1-2. 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 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: Silver, gold plated
Plunger material 1-2. Switch position: Stainless steel (1.4034)

Mechanical Cam Switches
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Mechanical data

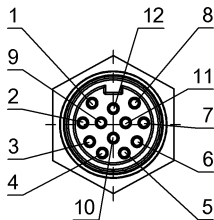
Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-2. Switch position: 60 m/min
Dimension	120 x 64 x 85.5 mm
Distance cam - reference edge	1-2. Switch position: 4.50...5.00 mm
Flange, feed-through	2 threaded exit M20
Installation	Vertical
Life expectancy mechanical	1-2. Switch position: 30 million Switching operations

Number of switching positions	2x Roller
Plunger spacing 1st switch position	30 mm
Plunger style	1-2nd switch position: Roller
Switch actuation force	1-2. Switch position: 20 N
Switching element	1-2. Switch position: BSE 30.0

Range/Distance

Reproducibility	1-2. Switch position: ± 0.01 mm
Switch position spacing	12 mm

Connector Drawings



View of connector side

Wiring Diagrams

