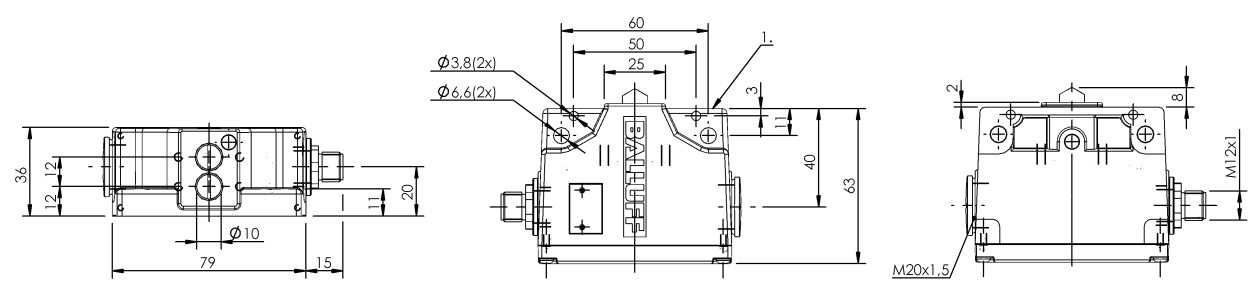
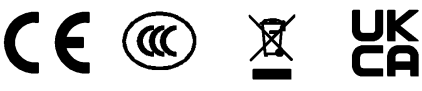


Mechanical Cam Switches
BNS 819-B02-D12-61-12-10-S4R
Order Code: BNS026Y

BALLUFF



1) Reference edge



Basic features

Additional features	without ground conductor connection
Approval/Conformity	CE UKCA CCC WEEE
Basic standard	IEC 60947-5-1
Operating principle	1-2. Switch position: Mechanical
Version	Snap contact

Display/Operation

Function indicator	1-2. Switch position: None
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Electrical connection

Connection	M12x1-Flange male, 4-pin, A-coded
Connection type	1. Switch position: Connector

Electrical data

Continuous current	1-2. Switch position: 4 A
Rated operating voltage Ue	1-2. Switch position: 25 V AC/60 V DC
Switching function mechanical	Double-interrupting galvanically isolated One NO and one NC Dual changeover
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 cycles
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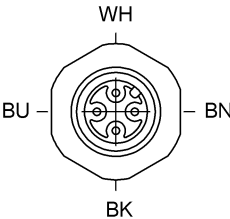
Material

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

Mechanical data

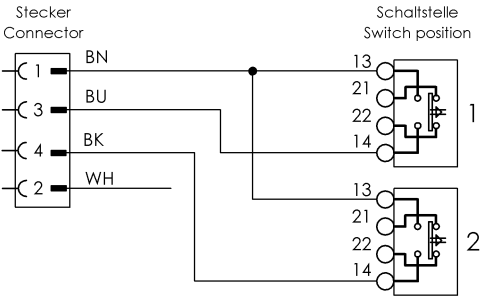
Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-2. Switch position: 40 m/min
Distance cam - reference edge	1-2. Switch position: 4.50...5.00 mm
Flange, feed-through	None
Installation	Vertical
Life expectancy mechanical	1-2. Switch position: 30 mil. switching operations
Number of switching positions	2x Chisel Mechanical
Plunger style	1-2nd switch position: Chisel
Switch actuation force	1-2. Switch position: 20 N
Switching element	1-2. Switch position: BSE 30.0

Connector Drawings



View of connector side

Wiring Diagrams



ACHTUNG: Stecker ohne Schutzleiter! Schutzklasse III (VDE 0160)
Attention: No groundwire! Protection Class III (VDE 0160)