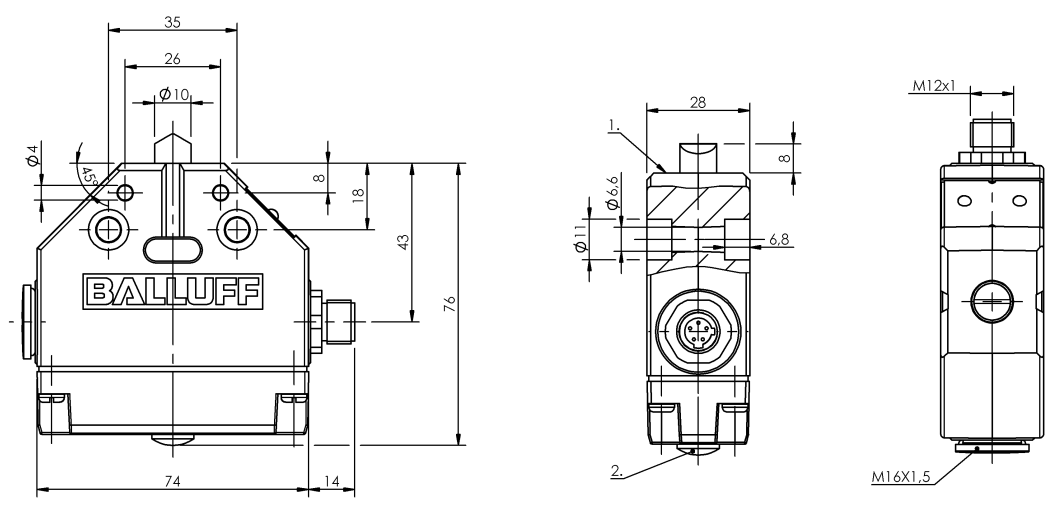
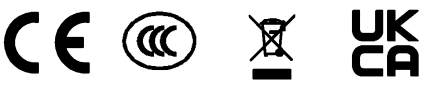


Mechanical Cam Switches
BNS 819-FD-60-101-FE-S80R
Order Code: BNS000J

BALLUFF



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



Basic features

DIN switch	DIN 43693
Operating principle	1. Switch position: Mechanical

Display/Operation

Function indicator	1. Switch position: FE - 90...250 V
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Electrical connection

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

Electrical data

Continuous current	1. Switch position: 4 A
Rated operating voltage Ue	1. Switch position: 90...250 V
Switching rate	1. Switch position: 300/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: Silver, gold plated
Plunger material	1. Switch position: 1.4034 stainless steel

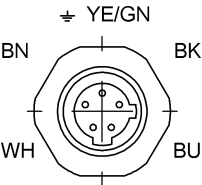
Mechanical data

Approach direction	lateral or at right angles to mounting surface
Approach speed	1. Switch position: 40 m/min
Dimension	74 x 28 x 76.5 mm
Distance cam - reference edge	1. Switch position: 4.50...5.00 mm
Flange, feed-through	None
Installation	any
Life expectancy mechanical	1. Switch position: 30 mil. switching operations
Number of switching positions	Chisel Mechanical
Plunger spacing 1st switch position	14 mm
Plunger style	1st switch position: Chisel 1st switch position: Chisel
Switch actuation force	1. Switch position: 20 N
Switching element	1. Switch position: BSE 30.0

Range/Distance

Reproducibility	1. Switch position: ±0.002 mm
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Connector Drawings



View of connector side

Wiring Diagrams

