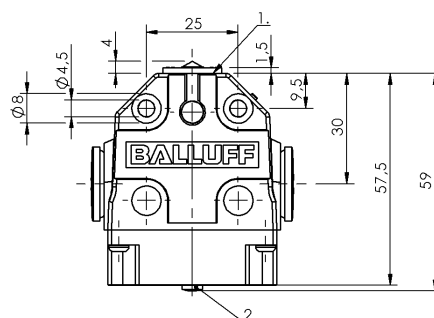
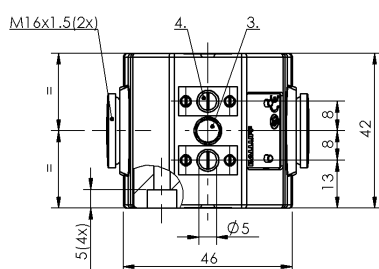




1) Reference edge, 2) Function indicator FD/FE/LL, 3) Sensing surface, 4) Anti-crystallization plunger



Basic features

Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-1 IEC 60947-5-2
Operating principle	1. Switch position: Mechanical 2. Switch position: Inductive 3. Switch position: Mechanical
Version	Snap contact

Display/Operation

Function indicator 2. Switch position: Optical fiber

Electrical connection

Connection type 1-3. Switch position: Screw terminal

Electrical data

Continuous current	1. Switch position: 5 A 2. Switch position: 0.13 A 3. Switch position: 5 A
Rated operating voltage U _e	1. Switch position: 250 V AC 2. Switch position: 24 V DC 3. Switch position: 250 V AC
Switching function mechanical	Single-pin changeover
Switching rate	1. Switch position: 200/min 3. Switch position: 200/min

Environmental conditions

Ambient temperature	-5...70 °C
IP rating	IP67

Functional safety

B10d (EN ISO 13849-1)	BSE 69.1: 10 mil. switching cycles
MTTF (40 °C)	BES 517-312-Y: 1620 a

Material

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material contacts	1. Switch position: Fine silver 3. Switch position: Fine silver
Plunger material	1. Switch position: 1.4034 stainless steel 3. Switch position: 1.4034 stainless steel

Mechanical Cam Switches
BNS 819-B03-E08-40-55-0944
Order Code: BNS01TM



Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1. Switch position: 10 m/min 3. Switch position: 10 m/min
Dimension	40 x 42 x 60 mm
Distance cam - reference edge	1. Switch position: 2.30...2.80 mm 3. Switch position: 2.30...2.80 mm
Flange, feed-through	None
Installation	parallel
Life expectancy mechanical	1. Switch position: 10 mil. switching operations 3. Switch position: 10 mil. switching operations
Number of switching positions	2x E-chisel Mechanical + Inductive

Plunger spacing 1st switch position	13 mm
Plunger style	1st switch position: E-Chisel 3rd switch position: E-Chisel
Switch actuation force	1-2. Switch position: 8 N
Switching element	1. Switch position: BSE 69.1 2. Switch position: BES 517-312-Y 3. Switch position: BSE 69.1

Range/Distance

Assured operating distance Sa	2. Switch position: 0.9 mm
Rated operating distance Sn	2. Switch position: 1.1 mm
Reproducibility	1. Switch position: ± 0.02 mm 3. Switch position: ± 0.02 mm
Switch position spacing	8 mm

Wiring Diagrams

