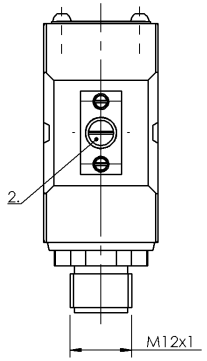
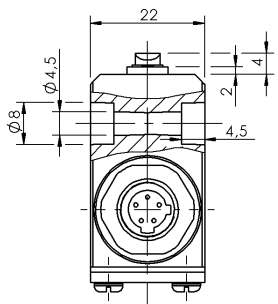
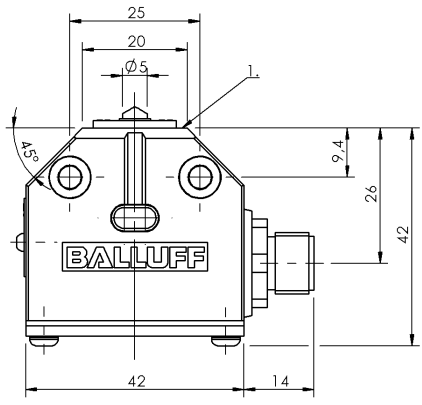
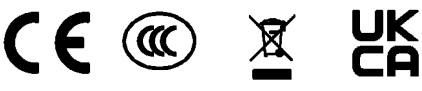


Mechanical Cam Switches
BNS 819-100-E-12-S80
Order Code: BNS03ZM



1) Reference edge, 2) Anti-crystallization plunger



Basic features

Operating principle	1. Switch position: Mechanical
---------------------	--------------------------------

Display/Operation

Function indicator	1. Switch position: None
--------------------	--------------------------

Electrical connection

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

Electrical data

Continuous current	1. Switch position: 0.1 A
Rated operating voltage Ue	1. Switch position: 250 V AC
Switching rate	1. Switch position: 200/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: Gold
Plunger material	1. Switch position: 1.4034 stainless steel

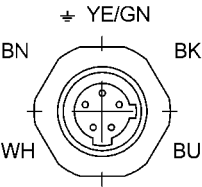
Mechanical data

Approach direction	lateral or at right angles to mounting surface
Approach speed	1. Switch position: 10 m/min
Dimension	42 x 22 x 47 mm
Distance cam - reference edge	1. Switch position: 2.30...2.80 mm
Flange, feed-through	None
Installation	any
Life expectancy mechanical	1. Switch position: 10 mil. switching operations
Number of switching positions	E-chisel Mechanical
Plunger spacing 1st switch position	11 mm
Plunger style	1st switch position: E-Chisel 1st switch position: E-Chisel
Switch actuation force	1. Switch position: 8 N
Switching element	1. Switch position: BSE 73.1

Range/Distance

Reproducibility	1. Switch position: ±0.02 mm
-----------------	------------------------------

Connector Drawings



View of connector side

Wiring Diagrams

