



Main

Range of product	OsiSense XC
Series name	Standard format
Product or component type	Limit switch
Device short name	XCMD
Sensor design	Miniature
Body type	Plug-in body
Head type	Rotary head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the body
Movement of operating head	Rotary
Type of operator	Spring return roller lever thermoplastic
Type of approach	Lateral approach 2 directions
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

Complementary

Tracks	24/31 mm
Switch actuation	By 30° cam
Electrical connection	Male connector M12, 4 pins
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	0.5 N
Minimum force for tripping	0.1 N
Maximum actuation speed	1.5 m/s
[Ie] rated operational current	1 A at 24 V, DC-13 conforming to EN/IEC 60947-5-1 appendix A 3 A at 24 V, AC-14
[Ithe] conventional enclosed thermal current	4 A
[Ui] rated insulation voltage	36 V degree of pollution 3 conforming to IEC 60947-5-1

Resistance across terminals	<= 25 MOhm conforming to IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	0.8 kV conforming to IEC 60664 0.8 kV conforming to IEC 60947-1
Short-circuit protection	4 A by gG cartridge fuse
Electrical durability	5000000 cycles, DC-13, 24 V, 3 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles
Width	30 mm
Height	104 mm
Depth	38 mm
Product weight	0.13 kg

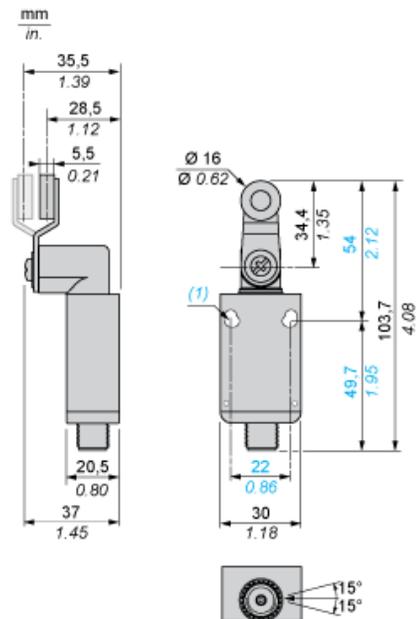
Environment

Shock resistance	25 gn (duration = 18 ms) conforming to IEC 60068-2-27
Vibration resistance	5 gn (f = 10...500 Hz) conforming to IEC 60068-2-6
IP degree of protection	IP69 conforming to IEC 60529 IP66 conforming to IEC 60529
IK degree of protection	IK04 conforming to EN 62262
Electrical shock protection class	Class III conforming to IEC 61140 Class III conforming to NF C 20-030
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...70 °C
Protective treatment	TC
Product certifications	CCC cURus
Standards	EN/IEC 60204-1 EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14

Contractual warranty

Warranty period	18 months
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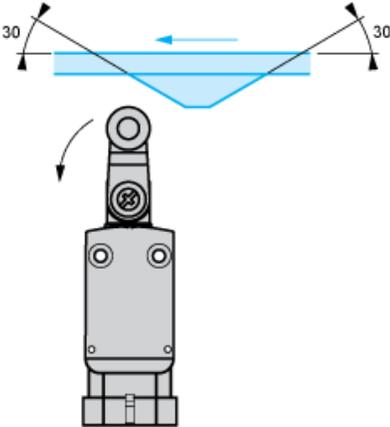
Dimensions



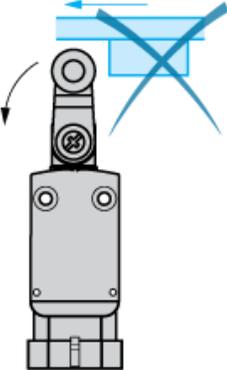
(1) : 2 elongated holes $\varnothing 4.3 \times 6.3$ mm on 22 mm centers or 2 holes $\varnothing 4.3$ on 20 mm centers.

Mounting with Roller Lever

Recommended Mounting



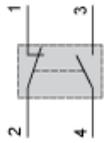
Mounting to be Avoided



Connections and Schema

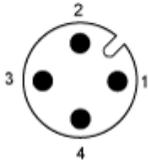
Wiring Diagram

2-pole NC + NO Snap Action



Connections and Schema

M12 Connector

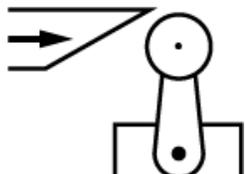


- 1 : NC
- 2 : NC
- 3 : NO
- 4 : NO

Technical Description

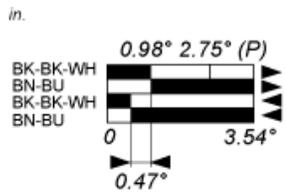
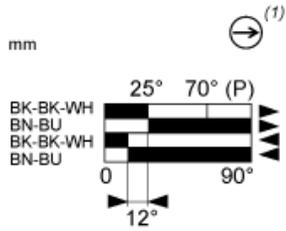
Characteristics of Actuation

Switch Actuation by 30°cam



Technical Description

Functional Diagram, Travel Distance



- (2)
- (3)
- ▶ (4)
- ◀ (5)

- (P) : Positive opening point
- (1) : NC contact with positive opening operation
- (2) : Closed
- (3) : Open
- (4) : Tripping
- (5) : Resetting
- BK : Black
- BK-WH : Black White
- BU : Blue
- BN : Brown