



Main

Range of product	OsiSense XC
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKD
Sensor design	Compact
Body type	Fixed
Head type	Multi-directional head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the body
Movement of operating head	Multi-directional
Type of operator	Spring return cat's whisker
Type of approach	Multi-directional approach
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

Complementary

Switch actuation	By any moving part
Electrical connection	Male connector M12, 5 pins
Contacts insulation form	Zb
Positive opening	Without
Minimum torque for tripping	0.13 N.m
Maximum actuation speed	1 m/s
Repeat accuracy	0.1 mm on the tripping points with 1 million operating cycles
[Ie] rated operational current	3 A at 50 V, AC-15 conforming to EN/IEC 60947-5-1 appendix A 0.27 A at 50 V, DC-13 conforming to EN/IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	4 A
[Ui] rated insulation voltage	60 V degree of pollution 3 conforming to IEC 60947-1
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, 10 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
Mechanical durability	5000000 cycles
Width	31 mm
Height	65 mm
Depth	30 mm
Product weight	0.185 kg
Terminals description ISO n°1	(13-14)NO (21-22)NC

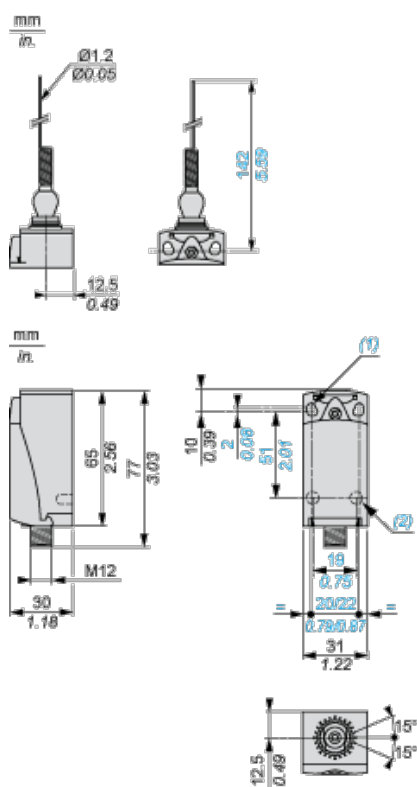
Environment

shock resistance	50 gn (duration = 11 ms) conforming to IEC 60068-2-27
vibration resistance	25 gn (f = 10...500 Hz) conforming to IEC 60068-2-6
IK degree of protection	IK06 conforming to EN 50102
electrical shock protection class	Class I conforming to IEC 61140 Class I 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 CSA UL
standards	EN 60204-1 EN 60947-5-1 IEC 60204-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1002 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product end of life instructions	Need no specific recycling operations

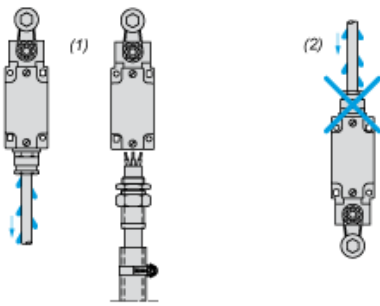
Dimensions



- (1) 2 elongated holes $\varnothing 4.3 \times 6.3$ mm on 22 mm centres, 2 holes $\varnothing 4.3$ on 20 mm centres.
- (2) 2 x $\varnothing 3$ holes for support studs, depth 4 mm.

Mounting with Cable Entry

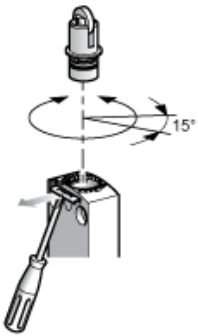
Position of Cable Gland



- (1) Recommended
- (2) To be avoided

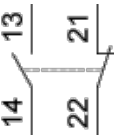
Setting-up

Plunger or Multi-directional Heads



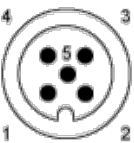
Wiring Diagram

2-pole NC + NO Snap Action



Connections

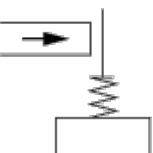
M12 Connector



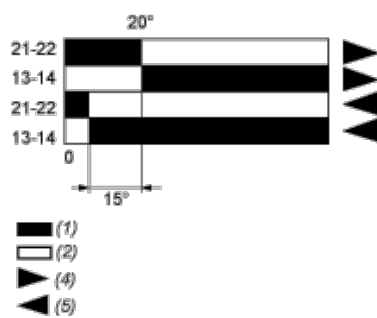
- 1-2 : NC
- 3-4 : NO
- 5 : Grounding

Characteristics of Actuation

Switch Actuation by Any Moving Part



Functionnal Diagram



- (1) Closed
- (2) Open
- (4) Tripping
- (5) Resetting