

## 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	M18 plunger head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the head
Movement of operating head	Linear
Type of operator	Spring return roller plunger metal
Type of approach	Lateral approach 2 directions
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

## Complementary

Switch actuation	By 30° cam
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup>
Cable entry	1 entry tapped for M16 x 1.5 cable gland, cable outer diameter: 0.16...0.31 in (4...8 mm)
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	36 N
Minimum force for tripping	10 N
Maximum actuation speed	1.64 ft/s (0.5 m/s)
Repeat accuracy	0.1 mm on the tripping points with 1 million operating cycles
Contact code designation	A300, AC-15 (U <sub>e</sub> = 240 V, I <sub>e</sub> = 3 A) , I <sub>the</sub> = 10 A conforming to EN 60947-5-1 A300, AC-15 (U <sub>e</sub> = 240 V, I <sub>e</sub> = 3 A) , I <sub>the</sub> = 10 A conforming to IEC 60947-5-1 appendix A Q300, DC-13 (U <sub>e</sub> = 250 V, I <sub>e</sub> = 0.27 A) conforming to EN 60947-5-1 Q300, DC-13 (U <sub>e</sub> = 250 V, I <sub>e</sub> = 0.27 A) conforming to IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	500 V degree of pollution 3 conforming to IEC 60947-1 300 V conforming to UL 508 300 V conforming to CSA C22.2 No 14
Resistance across terminals	<= 25 MOhm conforming to IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60664 6 kV conforming to IEC 60947-1
Short-circuit protection	10 A cartridge fuse gG
Electrical durability	5000000 cycles, DC-13, 120 V, 4 W, operating rate: <= 60 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factor: 0.5, DC 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, DC conforming to IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles
Width	1.22 in (31 mm)
Height	2.56 in (65 mm)

Depth	1.18 in (30 mm)
Product weight	0.49 lb(US) (0.22 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
IP degree of protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529
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	-13...158 °F (-25...70 °C)
ambient air temperature for storage	-40...158 °F (-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

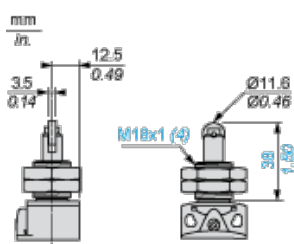
## Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1402 - Schneider Electric declaration of conformity	Compliant - since 1402 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Need no specific recycling operations	Need no specific recycling operations
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

Warranty period	18 months
-----------------	-----------

## Dimensions

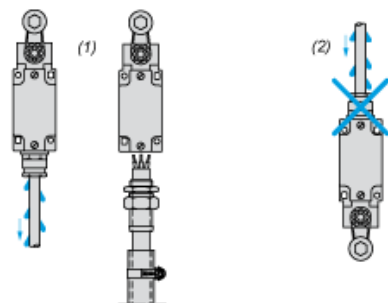




- (1) Tapped entry for M16 x 1.5
- (2) 2 elongated holes  $\varnothing 4.3 \times 6.3$  mm on 22 mm centres, 2 holes  $\varnothing 4.3$  on 20 mm centres.
- (3) 2 x  $\varnothing 3$  holes for support studs, depth 4 mm.
- (4) Fixing nut thickness 3.5 mm.

## Mounting with Cable Entry

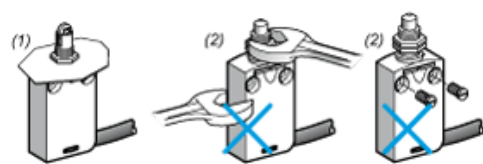
### Position of Cable Gland



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

## Panel Mounting

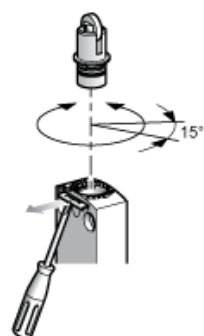
### Mounting and Fixing Limit Switches by the Head



- (1) Recommended
- (2) Forbidden

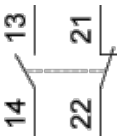
## Setting-up

### Plunger or Multi-directional Heads



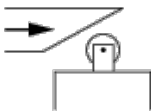
## Wiring Diagram

2-pole NC + NO Snap Action

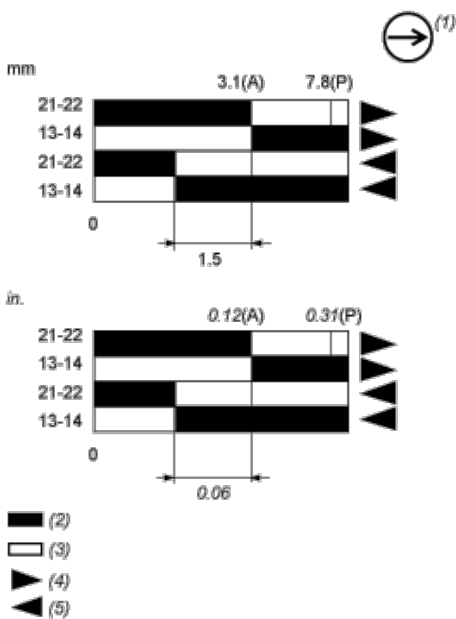


## Characteristics of Actuation

Switch Actuation by 30° Cam



## Functionnal Diagram



- (P) Positive opening point
- (A) Cam displacement
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting