# Product data sheet Characteristics

# XCKP2102N12

Limit switch, Limit switches XC Standard, XCKP, steel roller plunger, 1NC+1 NO, snap, 1/2NPT





#### Main

Telemecanique Limit switches XC Standard
Standard format
Limit switch
XCKP
Compact form C CENELEC EN 50047
Fixed
Plunger head
Plastic
Plastic
Zamak
By the body
Linear
Spring return roller plunger metal
Lateral approach, 2 directions
2
1 NC + 1 NO
Snap action

#### Complementary

Switch actuation	By 30° cam
Electrical connection	Screw-clamp terminals 1 x 0.342 x 1.5 mm²
Cable entry	1 entry tapped for 1/2" NPT cable gland
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	36 N
Minimum force for tripping	12 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 (Ue = 240 V), le = 3 A 10 A EN/IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), le = 0.27 A EN/IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	300 VUL 508 500 V 3)IEC 60947-1 300 VCSA C22.2 No 14
Maximum resistance across terminals	25 MOhm IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	6 KV IEC 60664 6 kV IEC 60947-1
Short-circuit protection	10 A cartridge fuse gG
Electrical durability	5000000 Cycles, DC-13, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles

### Environment

Shock resistance	50 gn 11 ms IEC 60068-2-27
Vibration resistance	25 gn 10500 Hz)IEC 60068-2-6
IP degree of protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529
IK degree of protection	IK04 EN 50102
Electrical shock protection class	Class II IEC 61140 Class II NF C 20-030
Ambient Air Temperature for Operation	-13158 °F (-2570 °C)
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)
Protective treatment	TC
Product Certifications	CSA UL CCC
Standards	UL 508 IEC 60204-1 CSA C22.2 No 14 IEC 60947-5-1 EN 60204-1 EN 60947-5-1

## Ordering and shipping details

Category	22418-LIMIT SWITCH,IEC,XCKP&XCKT
Discount Schedule	Т
GTIN	3389110305586
Returnability	Yes
Country of origin	US

## Packing Units

3		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	4.13 in (10.5 cm)	
Package 1 Width	1.30 in (3.3 cm)	
Package 1 Length	1.69 in (4.3 cm)	
Package 1 Weight	3.49 oz (99.0 g)	

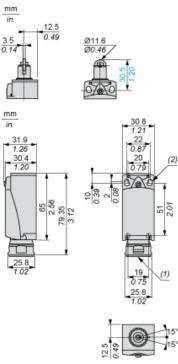
# Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: 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. For more information go to www.P65Warnings.ca.gov
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	₫Yes
Environmental Disclosure	<sup>☑</sup> Product Environmental Profile
Circularity Profile	☑ End Of Life Information

## Contractual warranty

Warranty	18 months	

### **Dimensions**

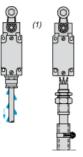


- (1) Tapped entry for 1/2" NPT (2) 2 elongated holes  $\varnothing$  4.3 x 6.3 mm on 22 mm centres, 2 holes  $\varnothing$  4.3 on 20 mm centres.

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## Mounting with Cable Entry

## Position of Cable Gland

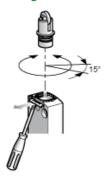




- Recommended
- (1) (2) To be avoided

## Setting-up

### Plunger or Multi-directional Heads



# Product data sheet Connections and Schema

# XCKP2102N12

## Wiring Diagram

2-pole NC + NO Snap Action

# Product data sheet **Technical Description**

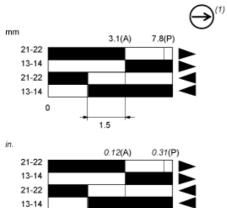
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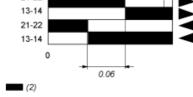
#### Characteristics of Actuation

### Switch Actuation by 30° Cam



### **Functionnal Diagram**







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