

Limit switch, Limit switches XC Standard,  
XCPR, metal end plunger, 2NC, snap, Pg11



**Main**

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCPR
Sensor design	Compact
Reset	With
Body type	Fixed
Head type	Plunger head
Material	Plastic
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Head material	Zamak
Fixing mode	By the body
Movement of operating head	Linear
Type of operator	Spring return plunger metal
Type of approach	Vertical approach, 1 direction
Cable entry	1 entry tapped for Pg 11 cable gland, cable outer diameter: 9...12 mm
Number of poles	2
Contacts type and composition	1 NC + 1 NC
Contact operation	Snap action

**Complementary**

Switch actuation	On end
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup>
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	45 N
Minimum force for tripping	15 N
Maximum actuation speed	0.5 m/s
Contact code designation	A300, AC-15 (Ue = 240 V), Ie = 3 A, Ithe = 10 A conforming to IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	300 V conforming to UL 508 500 V (pollution degree 3) conforming to IEC 60947-1 300 V conforming to CSA C22.2 No 14
Maximum resistance across terminals	25 MOhm conforming to IEC 60255-7 category 3
[Uiimp] rated impulse withstand voltage	6 kV conforming to IEC 60664 6 kV conforming to IEC 60947-1
Short-circuit protection	10 A cartridge fuse, type gG
Electrical durability	5000000 Cycles, DC-13, 120 V, 4 W, operating rate <60 cyc/mn, load factor: 0.5 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 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
Width	31 mm
Height	65 mm
Depth	30 mm

Net weight	0.115 kg
Terminals description ISO n°1	(21-22)NC (11-12)NC

## Environment

Shock resistance	50 gn for 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	IK04 conforming to IEC 62262
Overvoltage category	Class II conforming to IEC 61140 Class II 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	CSA[RETURN]UL
Standards	IEC 60204-1 IEC 60947-5-1 IEC 60204-1 UL 508 IEC 60947-5-1 CSA C22.2 No 14

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	19.1 cm
Package 1 Width	5.2 cm
Package 1 Length	58.5 cm
Package 1 Weight	121.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	14
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.149 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

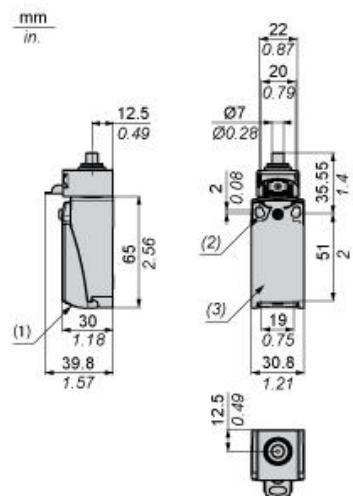
## Contractual warranty

Warranty	18 months
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Dimensions

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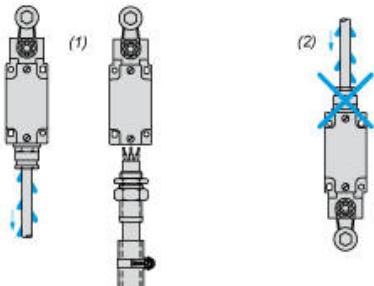
(1) Tapped entry for Pg 11 cable gland  
(2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.  
(3) 2 x Ø 3 holes for support studs, depth 4 mm

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Mounting with Cable Entry

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Position of Cable Gland

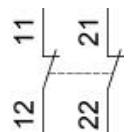


(1) Recommended  
(2) To be avoided

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Wiring Diagrams

2-pole NC + NC Snap Action

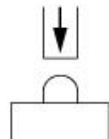


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Characteristics of Actuation

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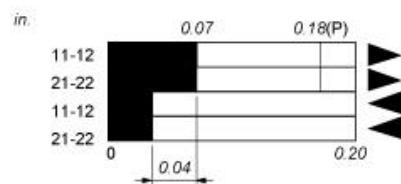
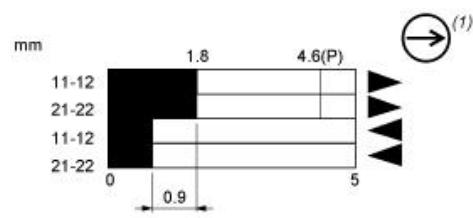
Switch Actuation on End



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Functional Diagram

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- (2)
- (3)
- ▶ (4)
- ◀ (5)

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