

Contexte Context	COMMERCE STANDARD CSI			Released	
CNIM Identification	05-Définition	WTD000242523	Révision Revision	A	
External Identification	XCMD2102M12				
Historic Identification					
Titre	INTERRUPTEUR XCMD2102M12				
Title	XCMD2102M12 LIMIT SWITCH				

**HISTORIQUE DES MODIFICATIONS / REVISION HISTORY**

Révision Revision	Date	Objet de la Modification / Modification Object
A	30/01/25	

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**PROCESSUS D'APPROBATION / APPROVAL PROCESS**

	Nom / Name	Date de signature Date signed
Auteur Author	Laurent DA BARBUTO	30/01/25
Vérificateurs Reviewers		
Approbateur Approver	Laurent DA BARBUTO	30/01/25

# XCMD2102M12

Limit switch, Limit switches XC Standard, XCMD, steel roller plunger, 1NC+1 NO, snap, M12



## Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCMD
Sensor design	Miniature
Body type	Plug-in body
Head type	Plunger head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the body
Movement of operating head	Linear
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

Switch actuation	By 30° cam
Electrical connection	Male connector M12, 4 pins
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	35 N
Minimum force for tripping	7 N
Maximum actuation speed	0.5 m/s
[Ie] rated operational current	1 A at 24 V, DC-13 conforming to EN/IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	3 A
[Ui] rated insulation voltage	250 V (pollution degree 3) conforming to IEC 60947-5-1
Maximum resistance across terminals	25 mOhm conforming to IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	2.5 KV conforming to IEC 60664 2.5 kV conforming to IEC 60947-1
Short-circuit protection	4 A cartridge fuse, type gG
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	50 mm
Depth	16 mm
Net weight	0.09 kg

## Environment

Shock resistance	25 gn for 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	IP66 conforming to IEC 60529 IP69 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	UL[RETURN]CCC[RETURN]CSA
Standards	UL 508 CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60204-1

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.7 cm
Package 1 Width	7.1 cm
Package 1 Length	5.3 cm
Package 1 Weight	90 g

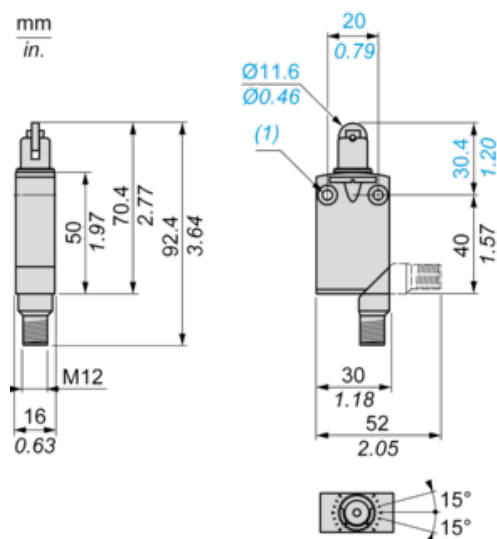
## Offer Sustainability

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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

Warranty	18 months
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## Dimensions



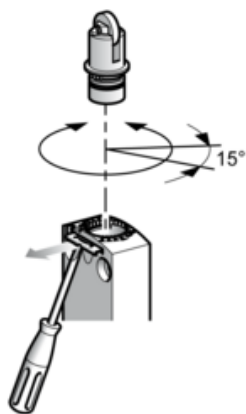
(1) 2 fixing holes  $\varnothing$  4.2 mm, counterbored  $\varnothing$  8 mm by 4 mm deep.

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## Setting-up

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### Plunger or Multi-directional Heads

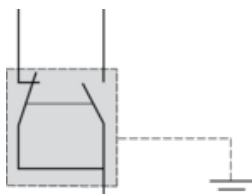


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## Wiring Diagram

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Single-pole CO Snap Action + Integral M12 4-pin Connector

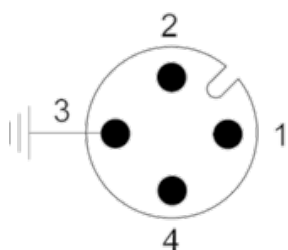


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## Wiring Diagram

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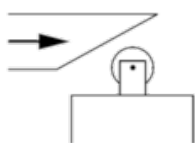
4-pin, M12, 3A-250V



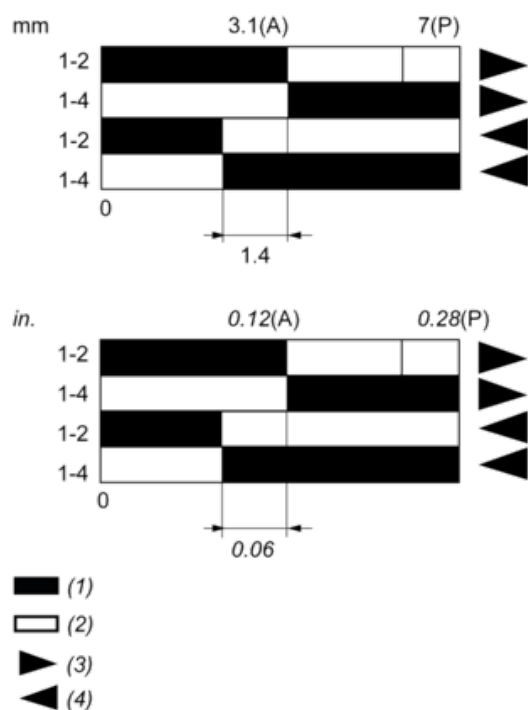
- 1 : Common
- 2 : NC
- 3 : Grounding
- 4 : NO

## Characteristics of Actuation

### Switch Actuation by 30° Cam



## Functional Diagram



(P) Positive opening point

(A) Cam displacement

(1) Closed

(2) Open

(3) Tripping

(4) Resetting