Product data sheet
Characteristics

XCMD21G1M12
Limit switch, Limit switches XC Standard, XCMD, M16 metal roller plunger nitrile boot, 1C/O, 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	M16 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 with elastomer boot
Type of approach	Vertical approach, 1 direction
Number of poles	1
Contacts type and composition	1 C/O
Contact operation	Snap action

Complementary

Switch actuation	On end
Electrical connection	Male connector M12, 4 pins
Contacts insulation form	Za
Positive opening	Without
Minimum force for tripping	8.5 N
Minimum actuation speed	0.01 m/min
Maximum actuation speed	0.5 m/s
[Ie] rated operational current	1.5 A at 240 V, AC-15 conforming to EN/IEC 60947-5-1 appendix A 0.1 A at 250 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 5000000 Cycles, DC-13, 48 V, 2 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 120 V, 1 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	0.125 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 IP67 conforming to IEC 60529 IP68 conforming to IEC 60529
IK degree of protection	IK06 conforming to EN 62262
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	UL[RETURN]CCC[RETURN]CSA
Standards	EN/IEC 60947-5-1 UL 508 EN/IEC 60204-1 CSA C22.2 No 14

Packing Units

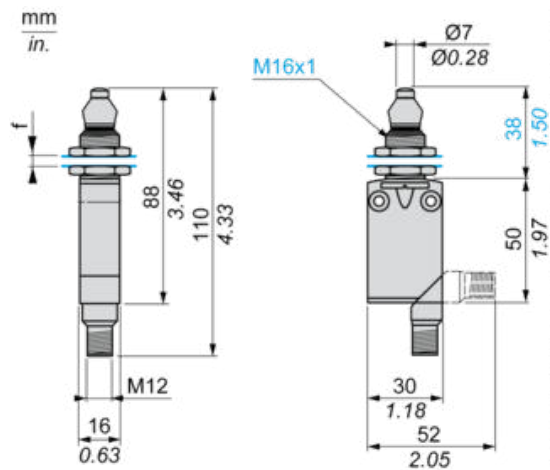|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.7 cm
Package 1 Width	5.3 cm
Package 1 Length	8.7 cm
Package 1 Weight	127.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	70
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	9.45 kg

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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

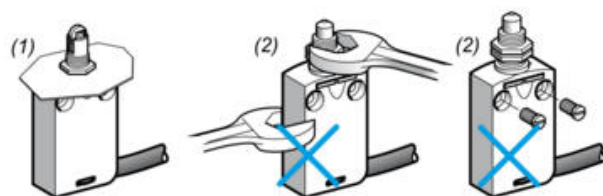|	
Warranty	18 months

Telemecanique
Sensors

Dimensions

f : 8 mm max., panel cut-out Ø 16.5 mm, fixing nut thickness 3.5 mm.

Panel Mounting
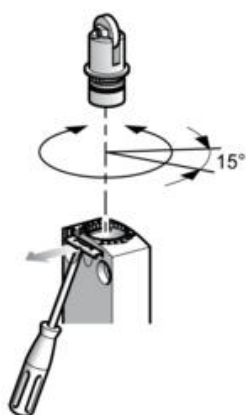
Mounting and Fixing Limit Switches by the Head
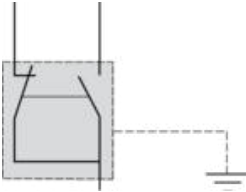

(1) Recommended
(2) Forbidden

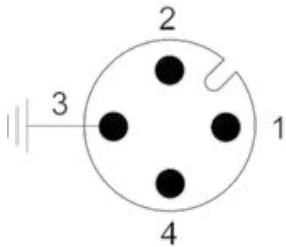## Setting-up

Plunger or Multi-directional Heads

Wiring Diagram

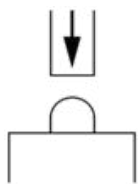### Single-pole CO Snap Action + Integral M12 4-pin Connector
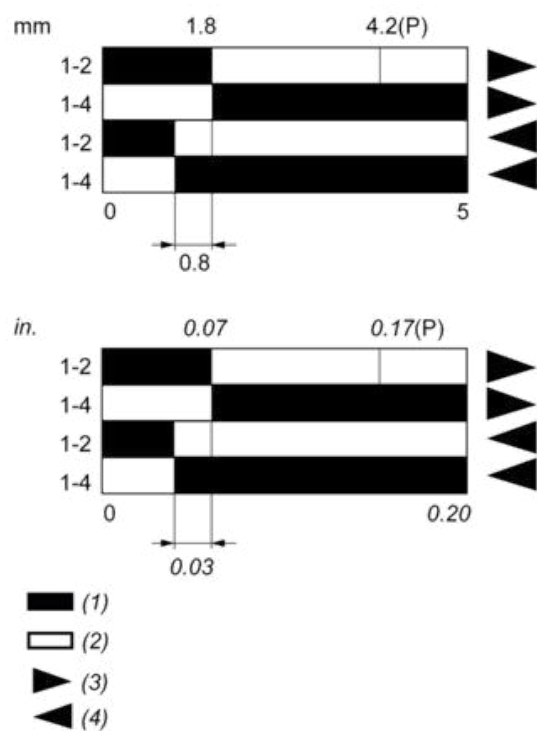
Wiring Diagram

4-pin, M12, 3A-250V

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

XCMD21G1M12

Characteristics of Actuation

Switch Actuation on End

Functional Diagram

(P) Positive opening point

(1) Closed

(2) Open

(4) Tripping

(5) Resetting

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