XCMD41F2L5EX

Limit switch, Limit switches XC Standard, XCMD, roller plunger, 2NC + 2 NO, ATEX/ IECEx



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	Fixed
Head type	M12 plunger head
Material	Metal
Fixing mode	By the head
Movement of operating head	Linear
Type of operator	Spring return roller plunger steel
Switch actuation	By 30° cam
Type of approach	Lateral approach, 2 directions
Electrical connection	Fixed cable
Number of poles	4
Contacts type and composition	2 x (1 NC + 1 NO)
Contacts insulation form	Zb
Contact operation	Snap action
Number of steps	1
Positive opening	With
Minimum force for tripping	7 N
Maximum actuation speed	0.1 m/s
IP degree of protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529

Complementary

Complementary		
Body material	Zamak	
Head material	Zamak	
Cable length	5 m	
Cable composition	9 x 0.34 mm²	
Wire insulation material	PvR	
Positive opening minimum force	35 N	
Minimum actuation speed	0.01 m/min	
Contact code designation	R300, DC-13 (Ue = 250 V), le = 0.1 A conforming to IEC 60947-5-1 R300, DC-13 (Ue = 250 V), le = 0.1 A conforming to IEC 60947-5-1 appendix A C300, AC-15 (Ue = 240 V), le = 0.75 A conforming to IEC 60947-5-1 C300, AC-15 (Ue = 240 V), le = 0.75 A conforming to IEC 60947-5-1 appendix A	
[Ithe] conventional enclosed thermal current	3 A AC	
[Ui] rated insulation voltage	300 V conforming to UL 508 400 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	
[Uimp] rated impulse withstand voltage	4 KV conforming to IEC 60664 4 kV conforming to IEC 60947-1	

Short-circuit protection	6 A cartridge fuse, type gG
Electrical durability	5000000 Cycles, DC-13, inductive load type, 24 V, 3 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, inductive load type, 48 V, 2 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 120 V, 1 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles
Marking	II2 D-Ex tb IIIC T85°C Db IP66/67
Width	30 mm
Height	50 mm
Depth	16 mm

Environment

Shock resistance	25 gn for 18 ms conforming to IEC 60068-2-27	
Vibration resistance	5 gn (f= 10500 Hz) conforming to IEC 60068-2-6	
Electrical shock protection class	Class I conforming to IEC 61140 Class I conforming to NF C 20-030	
Ambient air temperature for operation	-2060 °C	
Protective treatment	TC	
Dust zone	Zone 21 - 22	
Product certifications	INERIS 04ATEX0014X[RETURN]IEC-Ex INE 17.0020X	
Standards	IEC 60079-31 IEC 60079-0	
Directives	2014/34/EU - ATEX directive	

Packing Units

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Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	15 cm	
Package 1 Width	14 cm	
Package 1 Length	5 cm	
Package 1 Weight	513 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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

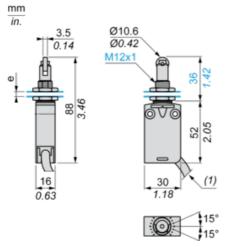
Contractidal warranty		
Warranty	18 months	



Product data sheet Dimensions Drawings

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Dimensions

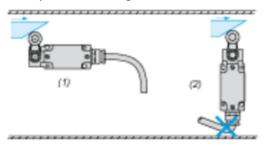


- (1) External diameter of cable 7.5 mm.
- e : 8 mm max, panel cut-out \varnothing 12.5 mm.

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Mounting

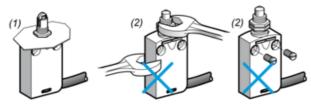
Sweep of Connecting Cable



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

Panel Mounting

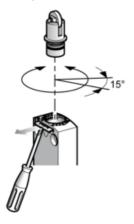
Mounting and Fixing Limit Switches by the Head



- (1) Recommended
- (2) Forbidden

Setting-up

Plunger or Multi-directional Heads

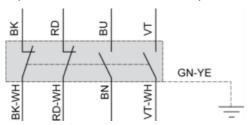


Product data sheet Connections and Schema

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Wiring Diagram

4-pole NC + NC + NO + NO Snap Action



(BK) Black

(BK-WH) Black White

(RD) Red

(RD-WH) Red White

(BU) Blue

(BN) Brown

(VT) Violet White

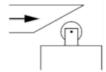
(VT-WH) Violet White

(GN-YE) Green Yellow

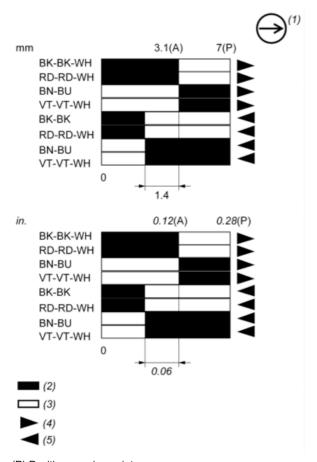
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Characteristics of Actuation

Switch Actuation by 30° Cam



Functional Diagram



- (P) Positive opening point
- (A) Cam displacement
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting
- (BK) Black
- (BK-WH) Black White
- (RD) Red
- (RD-WH) Red White
- (BN) Brown
- (BU) Blue
- (VT) Violet
- (VT WH) Violet White