XCMD21F0L1

limit switch XCMD - M12 metal end plunger - 1NC+1NO - snap - 1 m

Green Premium™ Product

Main

Range of product	OsiSense XC
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
Body material	Zamak
Head material	Zamak
Fixing mode	By the head
Movement of operating head	Linear
Type of operator	Spring return plunger metal
Type of approach	Vertical approach 1 direction
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contacts operation	Snap action

Complementary

Switch actuation	On end
Electrical connection	Removable cable connector
Cable length	1 m
Cable composition	5 x 0.75 mm²
Wire insulation material	PvR
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	42.5 N
Minimum force for tripping	8.5 N
Minimum actuation speed	0.01 m/min
Maximum actuation speed	0.5 m/s
Contact code designation	B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	300 V degree of pollution 3 conforming to UL 508 400 V degree of pollution 3 conforming to IEC 60947-5-1 300 V degree of pollution 3 conforming to CSA C22.2 No 14
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 by gG cartridge fuse

Telemecanique Sensors

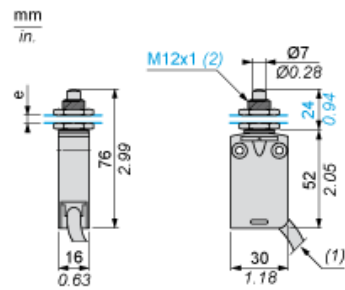| Electrical durability	5000000 cycles, DC-13, 120 V, 1 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
	5000000 cycles, DC-13, 24 V, 3 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
	5000000 cycles, DC-13, 48 V, 2 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles
Width	30 mm
Height	50 mm
Depth	16 mm
Product weight	0.195 kg

Environment

Shock resistance	25 gn (duration = 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 50102
Overvoltage category	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	CCC
	CSA
	UL
Standards	EN/IEC 60204-1
	EN/IEC 60947-5-1
	UL 508
	CSA C22.2 No 14

Offer Sustainability

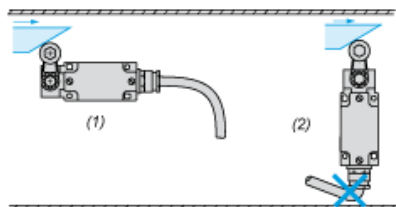| Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1002 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

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Dimensions

(1) External diameter of cable 7.5 mm.
(2) Fixing nut thickness 3.5 mm.
e :   8 mm max, panel cut-out Ø 12.5 mm.
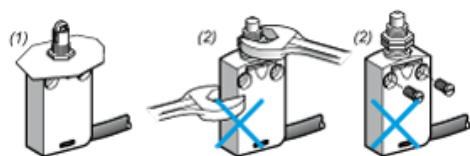
XCMD21F0L1

Mounting

Sweep of Connecting Cable

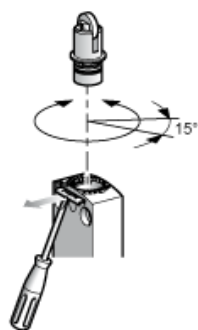(1)   Recommended
(2)   To be avoided

Panel Mounting

Mounting and Fixing Limit Switches by the Head
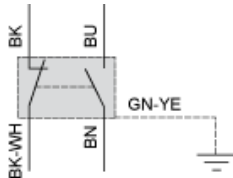

(1)   Recommended
(2)   Forbidden

Setting-up

Plunger or Multi-directional Heads

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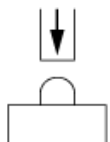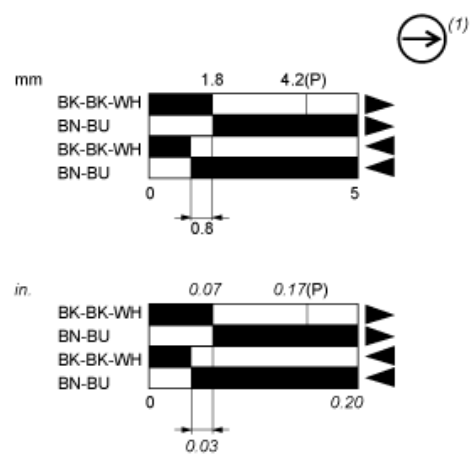
Wiring Diagram

2-pole NC + NO Snap Action

(BK) Black
(BK-WH) Black White
(BU) Blue
(BN) Brown
(GN-YE) Green Yellow

Characteristics of Actuation

Switch Actuation on End

Functionnal Diagram

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