# XCMN21F0L1



#### Main

Range of product	OsiSense XC
Series name	Standard format
Product or component type	Limit switch
Device short name	XCMN
Sensor design	Miniature
Body type	Fixed
Head type	M12 plunger head
Material	Plastic
Body material	Plastic
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
Contact operation	Snap action

#### Complementary

Complementary		
Switch actuation	On end	
Electrical connection	Fixed cable	
Cable length	3.28 ft (1 m)	
Cable composition	4 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	1.64 ft/s (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	
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	5000000 cycles	
Width	1.18 in (30 mm)	
Height	2.99 in (76 mm)	
Depth	0.63 in (16 mm)	
Product weight	0.14 lb(US) (0.065 kg)	

#### **Environment**

shock resistance	25 gn (duration = 18 ms) conforming to IEC 60068-2-27	
vibration resistance	5 gn (f = 10500 Hz) conforming to IEC 60068-2-6	
IP degree of protection	IP65 conforming to IEC 60529	
IK degree of protection	IK04 conforming to EN 50102	
electrical shock protection class	Class II conforming to IEC 61140 Class II conforming to NF C 20-030	
ambient air temperature for operation	-13158 °F (-2570 °C)	
ambient air temperature for storage	-40158 °F (-4070 °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	

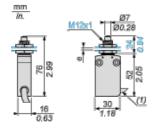
## Offer Sustainability

Not Green Premium product	Not Green Premium product
Compliant - since 0944 - Schneider Electric declaration of conformity	Compliant - since 0944 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	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.	eDi-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 more information go to www.p65warnings.ca.gov

## Contractual warranty

Warranty period	18 months	
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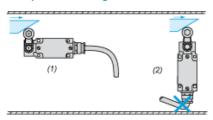
## **Dimensions**



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

## **Mounting**

#### **Sweep of Connecting Cable**



(1) Recommended



## **Panel Mounting**

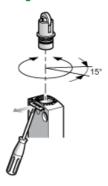
## Mounting and Fixing Limit Switches by the Head



- (1) Recommended
- (2) Forbidden

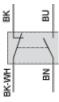
## Setting-up

#### Plunger or Multi-directional Heads



# Wiring diagram

## 2-pole NC + NO Snap Action



(BK) Black

(BK- Black White

WH)

(BN) Brown

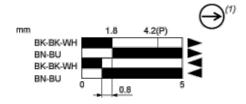
(BU) Blue

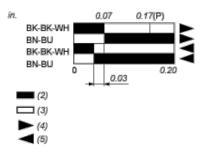
#### **Characteristics of Actuation**

#### **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- Black White
- WH)
- (BN) Brown
- (BU) Blue