



## 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	Multi-directional head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the body
Movement of operating head	Multi-directional
Type of operator	Spring return cat's whisker
Type of approach	Multi-directional approach
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

## Complementary

Switch actuation	By any moving part
Electrical connection	Removable cable connector
Cable length	3.28 ft (1 m)
Cable composition	5 x 0.75 mm <sup>2</sup>
Wire insulation material	PvR
Contacts insulation form	Zb
Positive opening	Without
Minimum force for tripping	0.1 N
Maximum actuation speed	3.28 ft/s (1 m/s)
Contact code designation	B300, AC-15 (Ue = 240 V), Ie = 1.5 A EN/IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 0.1 A EN/IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	300 V 3)UL 508 400 V 3)IEC 60947-5-1 300 V 3)CSA C22.2 No 14
Maximum resistance across terminals	25 mOhm IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	4 kV IEC 60664 4 kV IEC 60947-1
Short-circuit protection	6 A cartridge fuse gG
Electrical durability	5000000 Cycles, DC-13, 120 V, 1 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, 24 V, 3 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 2 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C
Mechanical durability	5000000 cycles
Maximum Width	1.18 in (30 mm)
Height	1.97 in (50 mm)
Depth	0.63 in (16 mm)
Net Weight	0.40 lb(US) (0.18 kg)

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## Environment

Shock resistance	25 gn 18 ms IEC 60068-2-27
Vibration resistance	5 gn 10...500 Hz)IEC 60068-2-6
IP degree of protection	IP66 IEC 60529 IP67 IEC 60529 IP68 IEC 60529
IK degree of protection	IK06 EN 62262
Overvoltage category	Class I IEC 61140 Class I NF C 20-030
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Ambient air temperature for storage	-40...158 °F (-40...70 °C)
Protective treatment	TC
Product certifications	CSA CCC UL
Standards	CSA C22.2 No 14 EN/IEC 60204-1 EN/IEC 60947-5-1 UL 508

## Ordering and shipping details

Category	22413-LIMIT SWITCH, IEC, MINIATURE
Discount Schedule	T
GTIN	00785901896913
Nbr. of units in pkg.	1
Package weight(Lbs)	6.07 oz (172 g)
Returnability	No
Country of origin	ID

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	0.63 in (1.6 cm)
Package 1 width	6.10 in (15.5 cm)
Package 1 Length	7.28 in (18.5 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	30
Package 2 Weight	12.21 lb(US) (5.538 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

## 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>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

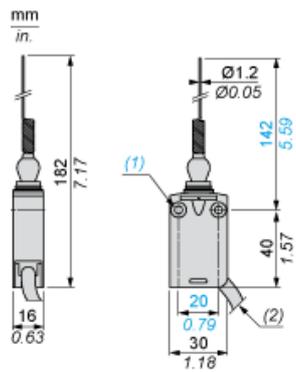
## Contractual warranty

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Warranty	18 months
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Dimensions



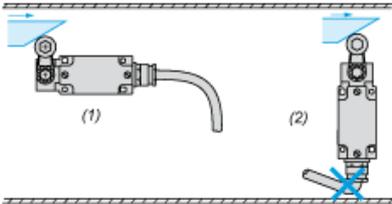
- (1) 2 fixing holes  $\text{Ø} 4.2$  mm, counterbored  $\text{Ø} 8$  mm by 4 mm deep.
- (2) External diameter of cable 7.5 mm.

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Mounting

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Sweep of Connecting Cable



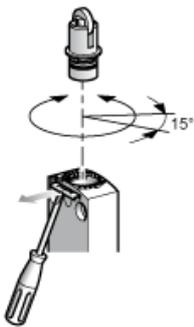
- (1) Recommended
- (2) To be avoided

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Setting-up

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Plunger or Multi-directional Heads

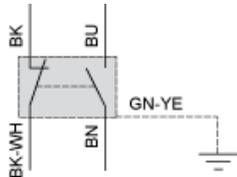


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## Wiring Diagram

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### 2-pole NC + NO Snap Action



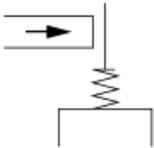
(BK) Black  
(BK- Black White  
WH)  
(BU) Blue  
(BN) Brown  
(GN- Green Yellow  
YE)

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Characteristics of Actuation

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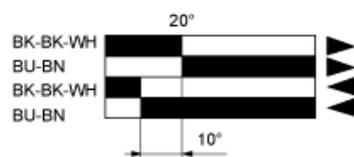
Switch Actuation by Any Moving Part



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Functionnal Diagram

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- (1) Closed
- (2) Open
- (3) Tripping
- (4) Resetting

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- (2) Open
- (3) Tripping
- (4) Resetting
- (BK) Black
- (BK- Black White
- WH)
- (BU) Blue
- (BN) Brown