Product data sheet

Specifications



Limit switch, Limit switches XC Standard, XCMD, steel roller lever, 1NC+1 NO, snap, 1 m

XCMD2116L1

Product availability : Stock - Normally stocked in distribution facility

Price* : 47.80 USD

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	Rotary head
Material	Metal
Body Material	Zamak
Head material	Zamak
Fixing Mode	By the body
Movement of operating head	Rotary
Type of operator	Spring return roller lever metal
Type of approach	Lateral approach, 2 directions
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

Complementary

Tracks	24/31 mm
Switch actuation	By 30° cam
Electrical connection	Removable cable connector
Cable length	3.28 ft (1 m)
Cable composition	5 x 0.75 mm²
Wire insulation material	PvR
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	0.5 N

* Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Minimum force for tripping	0.1 N
Maximum actuation speed	4.92 ft/s (1.5 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	10000000 cycles
Width	1.18 in (30 mm)
Height	1.97 in (50 mm)
Depth	0.63 in (16 mm)
Net Weight	0.50 lb(US) (0.225 kg)

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 conforming to IEC 60529 IP67 conforming to IEC 60529 IP68 conforming to 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	UL CCC CSA
Standards	UL 508 CSA C22.2 No 14 EN/IEC 60204-1 EN/IEC 60947-5-1

Ordering and shipping details

Category	22413-LIMIT SWITCH, IEC, MINIATURE
Discount Schedule	T
GTIN	3389110218435
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Package 1 Length	7.34 in (18.639 cm)

Number of Units in Package 1	1
Package 2 Width	11.81 in (30.0 cm)
Package 2 Height	11.81 in (30.0 cm)
Package 2 Weight	23.26 lb(US) (10.551 kg)
Package 1 Width	6.77 in (17.199 cm)
Package 1 Height	1.74 in (4.414 cm)
Package 1 Weight	7.09 oz (201.0 g)
Number of Units in Package 2	45
Unit Type of Package 2	S03
Package 2 Length	15.75 in (40.0 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 www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

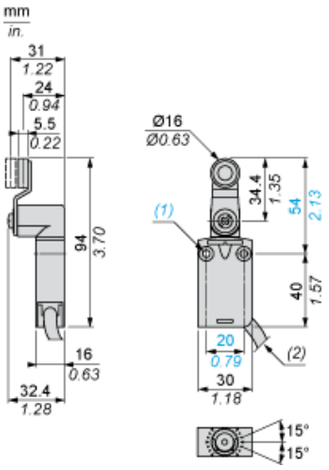
Contractual warranty

Warranty	18 months

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Dimensions Drawings

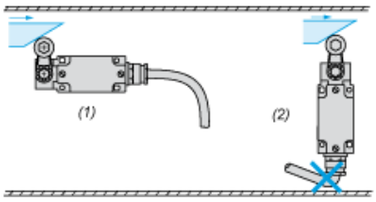
Dimensions



(1) 2 fixing holes Ø 4.2 mm, counterbored Ø 8 mm by 4 mm deep.
(2) External diameter of cable 7.5 mm.

Mounting

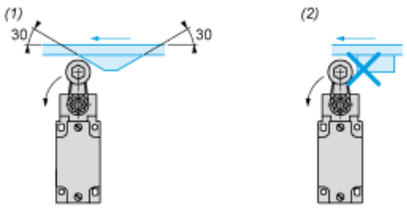
Sweep of Connecting Cable



(1) Recommended
(2) To be avoided

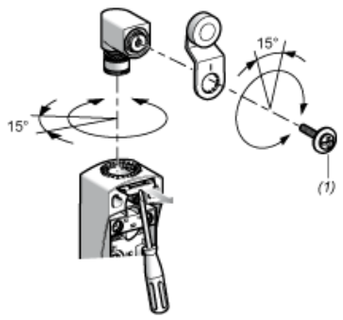
Mounting with Rotary Heads and Levers

Type of Cam



(1) Recommended
(2) To be avoided

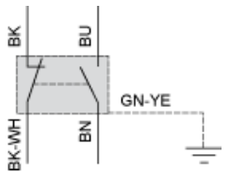
Setting-up with Head ZCE01 and ZCE09



(1) Tightening torque (Min : 1) (Max : 1.5)

Wiring Diagram

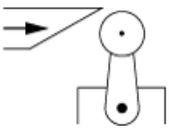
2-pole NC + NO Snap Action



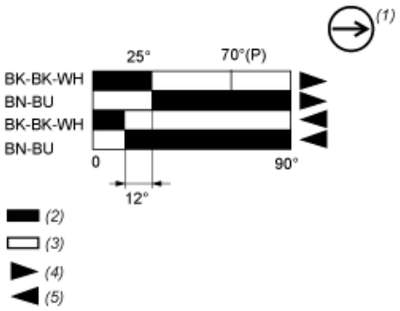
(BK) Black
(BK-WH) Black White
(BU) Blue
(BN) Brown
(GN-YE) Green Yellow

Characteristics of Actuation

Switch Actuation by 30° Cam



Functional 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