

# Product data sheet

Specifications



## Limit switch, Limit switches XC Standard, XCMD, steel roller plunger, 1NC+1 NO, slow, 1 m

XCMD2502L1

### 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	Plunger head
Material	Metal
Body Material	Zamak
Head Material	Zamak
Fixing Mode	By the body
Movement Of Operating Head	Linear
Type Of Operator	Spring return roller plunger metal
Type Of Approach	Lateral approach, 2 directions
Number Of Poles	2
Contacts Type And Composition	1 NC + 1 NO
Contact Operation	Slow-break

### Complementary

Switch Actuation	By 30° cam
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	35 N
Minimum Force For Tripping	7 N
Maximum Actuation Speed	0.5 m/s
Contact Code Designation	B300, AC-15 (Ue = 240 V), Ie = 1.5 A conforming to IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to IEC 60947-5-1 appendix A

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

[Ui] Rated Insulation Voltage	300 V (pollution degree 3) conforming to UL 508 400 V (pollution degree 3) conforming to IEC 60947-5-1 300 V (pollution degree 3) 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, 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
Net Weight	0.165 kg

## Environment

Shock Resistance	25 gn for 18 ms conforming to IEC 60068-2-27
Vibration Resistance	25 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 IEC 62262
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	UL CSA CCC
Standards	IEC 60947-5-1 IEC 60204-1 CSA C22.2 No 14 UL 508

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.0 cm
Package 1 Width	19.0 cm
Package 1 Length	19.0 cm
Package 1 Weight	174.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	25
Package 2 Height	15 cm

Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.9 kg

## Contractual warranty

Warranty	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information Yes

## Certifications & Standards

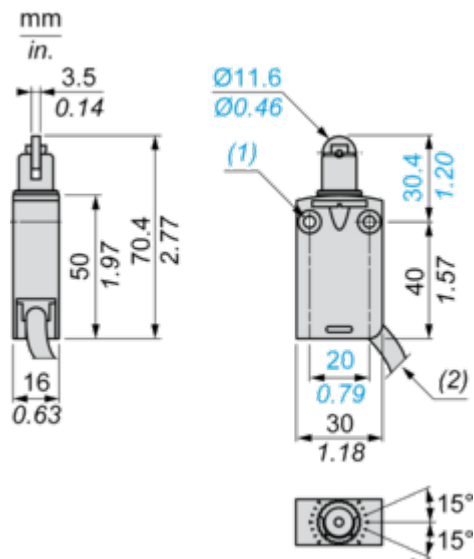
Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

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 Diisodecyl 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](http://www.P65Warnings.ca.gov)

Dimensions Drawings

Dimensions



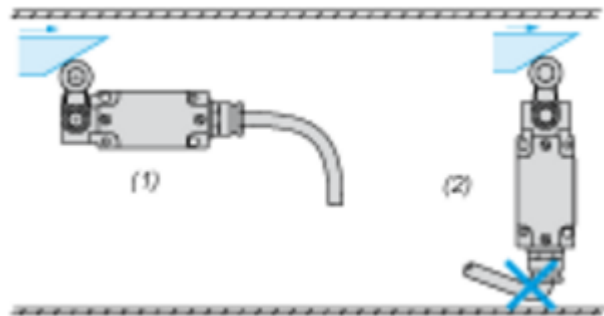
- (1) 2 fixing holes Ø 4.2 mm, counterbored Ø 8 mm by 4 mm deep.  
(2) External diameter of cable 7.5 mm.

Mounting and Clearance

Mounting

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Sweep of Connecting Cable

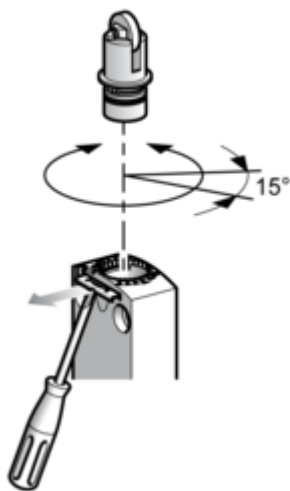


- (1) Recommended
- (2) To be avoided

Setting-up

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Plunger or Multi-directional Heads

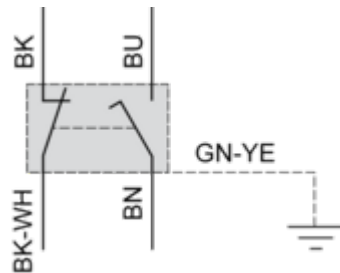


Connections and Schema

Wiring Diagram

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2-pole N/C + N/O Break before Make, Slow Break



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

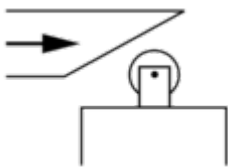


Technical Description

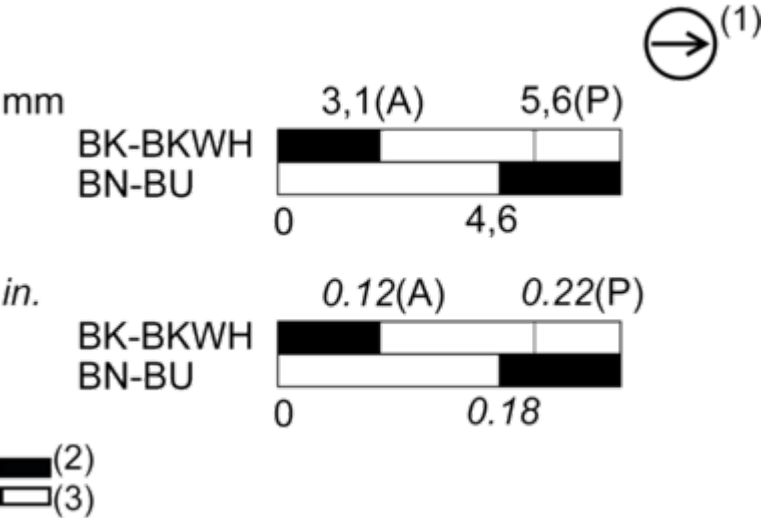
Characteristics of Actuation

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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
- (BK) Black
- (BK-WH) Black White
- (BU) Blue
- (BN) Brown