



# Limit switch, Limit switches XC Standard, XCMD, roller lever, 2NC + 2 NO, ATEX/IECEx

XCMD4116L5EX

### Main

Range of product	Telemecanique Limit switches XC Standard	
Series name	Standard format	
Product or component typee	Limit switch	
Device short name	XCMD	
Sensor design	Miniature	
Body type	Fixed	
Head type	Rotary head	
Material	Metal	
Fixing mode	By the body	
Movement of operating head	Rotary	
Type of operator	Spring return roller lever steel	
Switch actuation	By 30° cam	
Type of approach	Lateral approach, 2 directions	
Electrical connection	Fixed cable	
Number of poles	4	
Contacts type and composition	2 x (1 NC + 1 NO)	
Contacts insulation form	Zb	
Contact operation	Snap action	
Number of steps	1	
Positive opening	With	
Minimum torque for tripping	0.1 N.m	
Maximum actuation speed	1.5 m/s	
IP degree of protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529	

### Complementary

Body material	Zamak
Head material	Zamak
Tracks	24/31 mm

5 m		
9 x 0.34 mm²		
PvR		
0.5 N.m		
0.01 m/min		
R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to EN 60947-5-1 R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to IEC 60947-5-1 appendix A C300, AC-15 (Ue = 240 V), Ie = 0.75 A conforming to EN 60947-5-1 C300, AC-15 (Ue = 240 V), Ie = 0.75 A conforming to IEC 60947-5-1 appendix A		
3 A AC		
300 V conforming to UL 508 400 V (pollution degree 3) conforming to IEC 60947-1 300 V conforming to CSA C22.2 No 14		
25 MOhm conforming to IEC 60255-7 category 3		
4 kV conforming to IEC 60664 4 kV conforming to IEC 60947-1		
6 A cartridge fuse, type gG		
5000000 cycles, DC-13, inductive load type, 24 V, 3 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 48 V, 2 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 120 V, 1 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C		
10000000 cycles		
II2 D-Ex tb IIIC T85°C Db IP66/67		
30 mm		
50 mm		
16 mm		
25 gn for 18 ms conforming to IEC 60068-2-27		
5 gn (f= 10500 Hz) conforming to IEC 60068-2-6		
Class I conforming to IEC 61140 Class I conforming to NF C 20-030		
-2060 °C		
TC		
Zone 21 - 22		
INERIS 04ATEX0014X IEC-Ex INE 17.0020X		
EN/IEC 60079-31 EN/IEC 60079-0		
2014/34/EU - ATEX directive		
DOF		
PCE		
1		
15 cm		
14 cm		
5 cm		

Package 1 Weight	538 g		

### Offer Sustainability

Sustainable offer status	Green Premium product		
REACh Regulation	REACh Declaration		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
Mercury free	Yes		
RoHS exemption information	Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		
California proposition 65	fornia proposition 65  WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), was 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 www.P65Warnings.ca.gov		

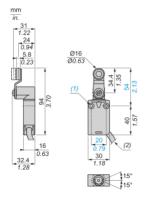
### **Contractual warranty**

Warranty 18 months

## XCMD4116L5EX

**Dimensions Drawings** 

#### **Dimensions**



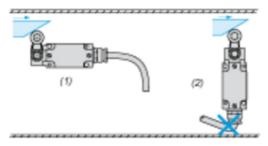
- (1) 2 fixing holes  $\varnothing$  4.2 mm, counterbored  $\varnothing$  8 mm by 4 mm deep.
- (2) External diameter of cable 7.5 mm.

## XCMD4116L5EX

Mounting and Clearance

#### Mounting

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



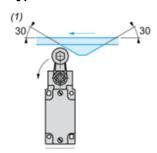
- (1) Recommended
- (2) To be avoided

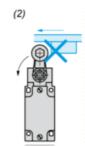
## XCMD4116L5EX

Mounting and Clearance

### **Mounting with Rotary Heads and Levers**

#### Type of Cam



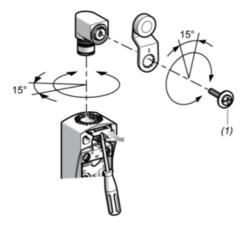


- (1) Recommended
- (2) To be avoided

## XCMD4116L5EX

Mounting and Clearance

### Setting-up with Head ZCE01 and ZCE09



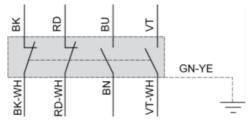
(1) Tightening torque (Min: 1) (Max: 1.5)

### XCMD4116L5EX

Connections and Schema

### Wiring Diagram

### 4-pole NC + NC + NO + NO Snap Action



(BK) Black

(BK-WH) Black White

(RD) Red

(RD-WH) Red White

(BU) Blue

(BN) Brown

(VT) Violet White

(VT-WH) Violet White

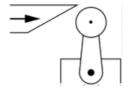
(GN-YE) Green Yellow

## XCMD4116L5EX

Technical Description

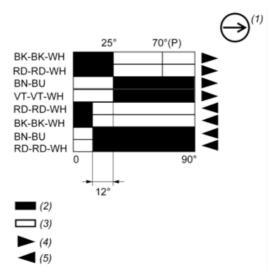
#### **Characteristics of Actuation**

Switch Actuation by 30° Cam



**Technical Description** 

#### **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
- (RD) Red
- (RD-WH) Red White
- (BN) Brown
- (BU) Blue
- (VT) Violet
- (VT WH) Violet White

#### Recommended replacement(s)