

# Product data sheet

Specifications



Limit switch, Limit switches XC Standard, XCKD, metal end plunger with nitrile boot, 1NC+1 NO, slow, M16

XCKD2511P16

## Main

Range Of Product	Telemecanique Limit switches XC Standard
Series Name	Standard format
Product Or Component Type	Limit switch
Device Short Name	XCKD
Sensor Design	Compact
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 with nitrile boot
Type Of Approach	Vertical approach, 1 direction
Number Of Poles	2
Contacts Type And Composition	1 NC + 1 NO
Contact Operation	Slow-break, break before make

## Complementary

Switch Actuation	On end
Electrical Connection	Screw-clamp terminals, clamping capacity: 1 x 0.5...2 x 2.5 mm²
Cable Entry	1 entry tapped for M16 x 1.5 cable gland, cable outer diameter: 4...8 mm
Contacts Insulation Form	Zb
Positive Opening	With
Positive Opening Minimum Force	45 N
Minimum Force For Tripping	15 N
Minimum Actuation Speed	6 m/min
Maximum Actuation Speed	0.5 m/s
Repeat Accuracy	0.1 mm on the tripping points with 1 million operating cycles

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

Contact Code Designation	A300, AC-15 (Ue = 240 V), Ie = 3 A, Ithe = 10 A conforming to EN 60947-5-1 A300, AC-15 (Ue = 240 V), Ie = 3 A, Ithe = 10 A conforming to IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to EN 60947-5-1 Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to IEC 60947-5-1 appendix A
[Ui] Rated Insulation Voltage	300 V conforming to UL 508 500 V (pollution degree 3) conforming to IEC 60947-1 300 V 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	6 kV conforming to IEC 60664 6 kV conforming to IEC 60947-1
Short-Circuit Protection	10 A cartridge fuse, type gG
Electrical Durability	5000000 cycles, DC-13, 120 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 24 V, 13 W, operating rate <60 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 9 W, operating rate <60 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C
Mechanical Durability	15000000 cycles
Width	31 mm
Height	65 mm
Depth	30 mm
Net Weight	0.18 kg
Terminals Description Iso N°1	(21-22)NC (13-14)NO

## Environment

Shock Resistance	50 gn for 11 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
Ik Degree Of Protection	IK06 conforming to EN 50102
Electrical Shock Protection Class	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	CCC UL CSA
Standards	IEC 60204-1 IEC 60947-5-1 CSA C22.2 No 14 EN 60947-5-1 UL 508 EN 60204-1

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.5 cm
Package 1 Width	3.2 cm

Package 1 Length	3.8 cm
Package 1 Weight	180.0 g

## 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

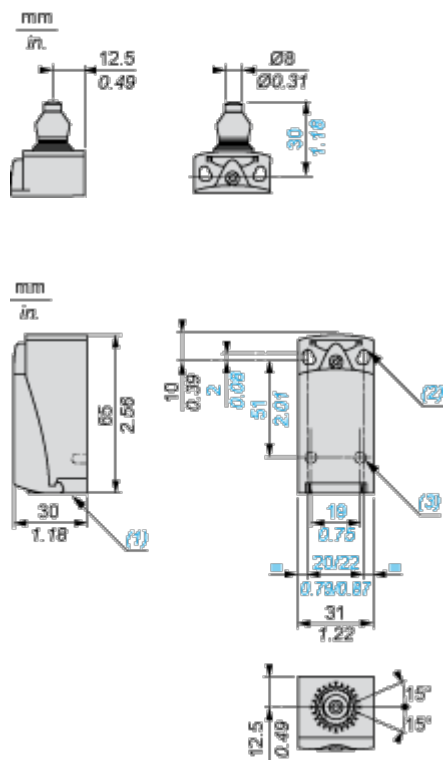
✓ Rohs Exemption Information [Yes](#)

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Circularity Profile	No need of specific recycling operations
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Dimensions Drawings

Dimensions



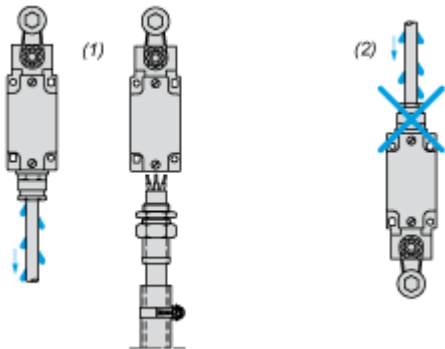
- (1) Tapped entry for M16 x 1.5
- (2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
- (3) 2 x Ø 3 holes for support studs, depth 4 mm.

Mounting and Clearance

Mounting with Cable Entry

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Position of Cable Gland

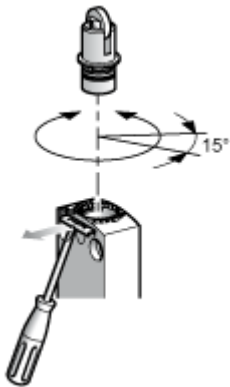


- (1) Recommended
- (2) To be avoided

Setting-up

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Plunger or Multi-directional Heads

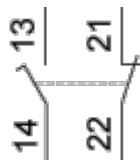


Connections and Schema

Wiring Diagram

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2-pole NC + NO Break before Make, Slow Break



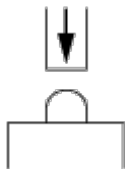


Technical Description

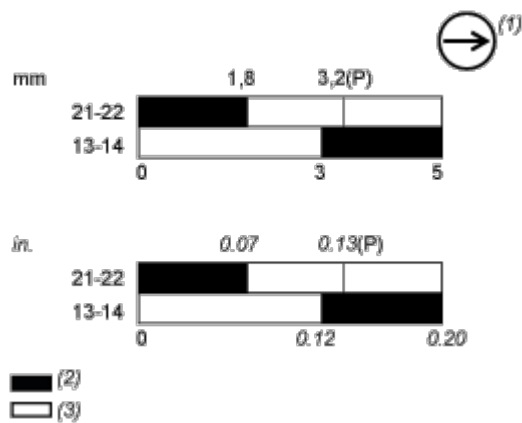
Characteristics of Actuation

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Switch Actuation on End



Functionnal Diagram



- (P) Positive opening point
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open