

# XCKS502

limit switch XCKS - steel roller plunger - 1NC  
+1NO - slow-break - Pg13



## Main

Range of product	OsiSense XC
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKS
Sensor design	Form C conforming to CENELEC EN 50041
Body type	Fixed
Head type	Plunger head
Material	Plastic
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Head material	Plastic
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
Cable entry	1 entry tapped for Pg 13.5 cable gland, cable outer diameter: 9...12 mm
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Slow-break, break before make

## Complementary




Switch actuation	By 30° cam
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.5...2 x 2.5 mm <sup>2</sup>
Contacts insulation form	Zb
Number of steps	1
Positive opening	With
Positive opening minimum force	20 N
Minimum force for tripping	12 N

Minimum actuation speed	6 m/min
Maximum actuation speed	0.5 m/s
Contact code designation	A300, AC-15 (Ue = 240 V), Ie = 3 A conforming to EN/IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to EN/IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	10 A AC
[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, inductive load type, 120 V, 4 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 24 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 48 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
Mechanical durability	15000000 cycles
Width	40 mm
Height	117 mm
Depth	37 mm
Net weight	0.133 kg
Terminals description ISO n°1	(13-14)NO (21-22)NC

## Environment

Shock resistance	50 gnfor 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	IP67 conforming to IEC 60529 IP66 conforming to IEC 60529
IK degree of protection	IK05 conforming to EN 50102
Electrical shock protection class	Class II conforming to IEC 61140 Class II conforming to NF C 20-030
Overvoltage category	Class II conforming to IEC 61140 Class II 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	CENELEC EN 50041 EN 60947-5-1 IEC 60204-1 UL 508 EN 60204-1 IEC 60947-5-1 CSA C22.2 No 14

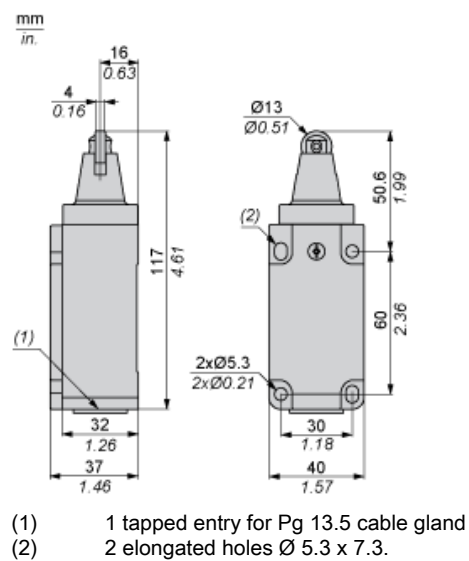
## Offer Sustainability

Sustainable offer status	Green Premium product
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>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>

Contractual warranty

Warranty	18 months
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## Dimensions

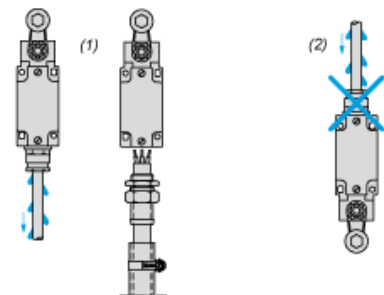


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Mounting with Cable Entry

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Position of Cable Gland



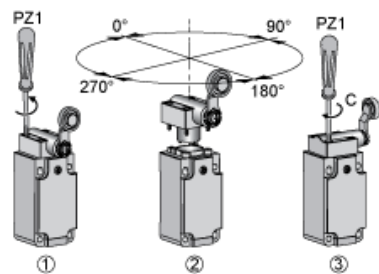
- (1) Recommended  
(2) To be avoided

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## Setting-up

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### Head Rotation Adjustment



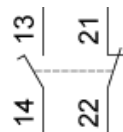
C : 1 Nm (+/- 20%) / 8.85 lb-in (+/- 20%)

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Wiring Diagram

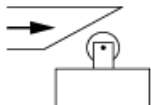
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2-pole NC + NO Break Before Make, Slow Break



Characteristics of Actuation

Switch Actuation by 30° Cam





mm

4.3(A) 6.6(P)

21-22

13-14

0 5.5

in.

0.17(A) 0.26(P)

21-22

13-14

0 0.22

■ (2)

□ (3)

(P) Positive opening point

(A) Cam displacement

(1) NC contact with positive opening operation

(2) Closed

(3) Open