Product data sheet Characteristics

XCKD2106P16

limit switch XCKD - cat's whisker - 1NC+1NO - snap - M16





Main

Mani	
Range of product	OsiSense XC
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKD
Sensor design	Compact
Body type	Fixed
Head type	Multi-directional head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the body
Movement of operating head	Multi-directional
Type of operator	Spring return cat"s whisker
Type of approach	Multi-directional approach
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

Complementary

A300, AC-15 (Ue = 240 V, Ie = 3 A), Ithe = 10 A conforming to IEC 60947-appendix A	1	
Cable entry	Switch actuation	By any moving part
Contacts insulation form Zb	Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.342 x 1.5 mm²
Positive opening Without	Cable entry	1 entry tapped for M16 x 1.5 cable gland, cable outer diameter: 48 mm
Minimum torque for tripping 0.13 N.m Maximum actuation speed 1 m/s Repeat accuracy 0.1 mm on the tripping points with 1 million operating cycles Contact code designation A300, AC-15 (Ue = 240 V, Ie = 3 A), Ithe = 10 A conforming to EN 60947-8000, AC-15 (Ue = 240 V, Ie = 3 A), Ithe = 10 A conforming to IEC 60947-1000, DC-13 (Ue = 250 V, Ie = 0.27 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 appendix A Q300, DC-13 (Ue = 250 V, Ie = 0.27 A) conforming to IEC 60947-5-1 appendix C G00 V degree of pollution 3 conforming to IEC 60947-1 and V conforming to CSA C22.2 No 14 Q22.2 No 14 Resistance across terminals <= 25 MOhm conforming to IEC 60255-7 category 3	Contacts insulation form	Zb
Maximum actuation speed 1 m/s Repeat accuracy 0.1 mm on the tripping points with 1 million operating cycles Contact code designation A300, AC-15 (Ue = 240 V, Ie = 3 A), Ithe = 10 A conforming to EN 60947-54000, AC-15 (Ue = 240 V, Ie = 3 A), Ithe = 10 A conforming to IEC 60947-3000, DC-13 (Ue = 250 V, Ie = 0.27 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 appendix DC-13 (Ue = 250 V, Ie = 0.27 A) conforming to IEC 60947-1 and V conforming to UL 508 S00 V degree of pollution 3 conforming to IEC 60947-1 and V conforming to CSA C22.2 No 14 Resistance across terminals <= 25 MOhm conforming to IEC 60255-7 category 3	Positive opening	Without
Repeat accuracy	Minimum torque for tripping	0.13 N.m
Contact code designation A300, AC-15 (Ue = 240 V, Ie = 3 A), Ithe = 10 A conforming to EN 60947-5 A300, AC-15 (Ue = 240 V, Ie = 3 A), Ithe = 10 A conforming to IEC 60947-appendix A Q300, DC-13 (Ue = 250 V, Ie = 0.27 A) conforming to IEC 60947-5-1 Q300, DC-13 (Ue = 250 V, Ie = 0.27 A) conforming to IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V, Ie = 0.27 A) conforming to IEC 60947-5-1 appendix A Q300 V conforming to UL 508 S00 V degree of pollution 3 conforming to IEC 60947-1 300 V 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 gG Electrical durability 5000000 cycles, DC-13, 120 V, 4 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C S000000 cycles, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C S000000 cycles, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 cyc/mn, load factors, A8 V, 7 W, operating rate: <= 60 c	Maximum actuation speed	1 m/s
A300, AC-15 (Ue = 240 V, Ie = 3 A), Ithe = 10 A conforming to IEC 60947-appendix A O300, 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 apper [Ui] rated insulation voltage 300 V conforming to UL 508 500 V degree of pollution 3 conforming to IEC 60947-1 300 V conforming to CSA C22.2 No 14 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 gG Electrical durability 5000000 cycles, DC-13, 120 V, 4 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC-13, 48 V, 7 W, operating rate: <= 60 cyc	Repeat accuracy	0.1 mm on the tripping points with 1 million operating cycles
500 V degree of pollution 3 conforming to IEC 60947-1 300 V conforming to CSA C22.2 No 14 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 gG Electrical durability 5000000 cycles, DC-13, 120 V, 4 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7	Contact code designation	• • • • • • • • • • • • • • • • • • • •
[Uimp] rated impulse withstand voltage 6 kV conforming to IEC 6064 6 kV conforming to IEC 60947-1 Short-circuit protection 10 A cartridge fuse gG Electrical durability 5000000 cycles, DC-13, 120 V, 4 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C Mechanical durability 5000000 cycles Width 31 mm Height 65 mm Depth 70 0.175 kg Terminals description ISO n°1 10 A cartridge fuse gG 5000000 cycles, DC-13, 120 V, 4 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C Mechanical durability 5000000 cycles 0.175 kg	[Ui] rated insulation voltage	500 V degree of pollution 3 conforming to IEC 60947-1
6 kV conforming to IEC 60947-1 Short-circuit protection 10 A cartridge fuse gG Electrical durability 5000000 cycles, DC-13, 120 V, 4 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factors, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles Width 31 mm Height 65 mm Depth 30 mm Product weight 0.175 kg Terminals description ISO n°1 (13-14)NO	Resistance across terminals	<= 25 MOhm conforming to IEC 60255-7 category 3
Solution	[Uimp] rated impulse withstand voltage	
0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factors	Short-circuit protection	10 A cartridge fuse gG
Width 31 mm Height 65 mm Depth 30 mm Product weight 0.175 kg Terminals description ISO n°1 (13-14)NO	Electrical durability	5000000 cycles, DC-13, 24 V, 10 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, 7 W, operating rate: <= 60 cyc/mn, load factor: 0.5
Height 65 mm Depth 30 mm Product weight 0.175 kg Terminals description ISO n°1 (13-14)NO	Mechanical durability	5000000 cycles
Depth 30 mm Product weight 0.175 kg Terminals description ISO n°1 (13-14)NO	Width	31 mm
Product weight 0.175 kg Terminals description ISO n°1 (13-14)NO	Height	65 mm
Terminals description ISO n°1 (13-14)NO	Depth	30 mm
	Product weight	0.175 kg
(Z1-ZZ)NC	Terminals description ISO n°1	(13-14)NO (21-22)NC

Environment

Environment	
Shock resistance	50 gn (duration = 11 ms) conforming to IEC 60068-2-27
Vibration resistance	25 gn (f = 10500 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	-2570 °C
Ambient air temperature for storage	-4070 °C
Protective treatment	TC
Product certifications	CCC CSA UL
Standards	EN 60204-1 EN 60947-5-1 IEC 60204-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14

Offer Sustainability

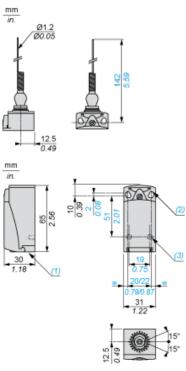
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1002 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product end of life instructions	Need no specific recycling operations



Product data sheet **Dimensions Drawings**

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Dimensions

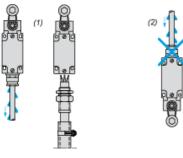


- (1) Tapped entry for M16 x 1.5
- (2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
 (3) 2 x Ø 3 holes for support studs, depth 4 mm.

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Mounting with Cable Entry

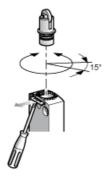
Position of Cable Gland



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

Setting-up

Plunger or Multi-directional Heads



Product data sheet Connections and Schema

XCKD2106P16

Wiring Diagram

2-pole NC + NO Snap Action



Product data sheet **Technical Description**

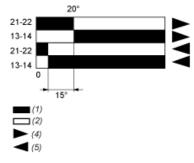
XCKD2106P16

Characteristics of Actuation

Switch Actuation by Any Moving Part



Functionnal Diagram



- (1) Closed
- (2) Open
- (4) Tripping(5) Resetting