## **XCKD3906P16EX**

Limit switch, Limit switches XC Standard, XCKD, cat's whisker, 2NC + NO, ATEX/IECEx



#### Main

Series name Standard format  Product or component type  Device short name XCKD  Sensor design Compact  Body type Fixed  Head type Multi-directional head  Material Metal  Fixing mode By the body  Movement of operating head  Type of operator Spring return cat"s whisker  Switch actuation By any moving part  Type of approach Multi-directional approach  Electrical connection Screw-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²  Cable entry number 1 tapped entry for M16 x 1.5 cable gland (included) 48 mm  Number of poles 3  Contacts type and 2 NC + 1 NO  Contacts insulation form Zb  Contact operation Snap action  Number of steps 1  Positive opening Without  Minimum torque for tripping  Maximum actuation 1 m/s  pleed 1 P66 conforming to IEC 60529  IP67 conforming to IEC 60529  IP67 conforming to IEC 60529	Range of product	Telemecanique Limit switches XC Standard
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Contacts type and composition  Contacts insulation form  Zb  Contact operation  Number of steps  1  Positive opening  Without  Minimum torque for tripping  Maximum actuation speed  IP degree of protection  2 NC + 1 NO  2 nC + 1 NO  2 nC + 1 NO  3 nap action  Number of steps  1  Positive opening  Without  Ninimum torque for tripping  Maximum actuation speed  IP degree of protection  IP66 conforming to IEC 60529	Cable entry number	,
composition  Contacts insulation form Zb  Contact operation Snap action  Number of steps 1  Positive opening Without  Minimum torque for tripping  Maximum actuation speed  IP degree of protection IP66 conforming to IEC 60529	Number of poles	3
Contact operation Snap action  Number of steps 1  Positive opening Without  Minimum torque for tripping  Maximum actuation speed  IP degree of protection IP66 conforming to IEC 60529		2 NC + 1 NO
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Positive opening Without  Minimum torque for tripping  Maximum actuation speed  IP degree of protection IP66 conforming to IEC 60529	Contact operation	Snap action
Minimum torque for tripping  Maximum actuation speed  IP degree of protection  O.13 N.m  1 m/s  1 m/s  1 m/s  1 m/s  1 m/s	Number of steps	1
tripping  Maximum actuation 1 m/s speed  IP degree of protection IP66 conforming to IEC 60529	Positive opening	Without
speed  IP degree of protection IP66 conforming to IEC 60529	•	0.13 N.m
		1 m/s
	IP degree of protection	<u> </u>

#### Complementary

o implementary	
Body material	Zamak
Head material	Zamak
Minimum actuation speed	0.01 m/min
Contact code designation	B300, AC-15 (Ue = 240 V), Ie = 1.5 A conforming to IEC 60947-5-1 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 R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	6 A AC
[Ui] rated insulation voltage	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
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, inductive load type, 120 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, 24 V, 4 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, 3 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C
Mechanical durability	5000000 cycles
Marking	II2 D-Ex tb IIIC T85°C Db IP66/67
Width	31 mm
Height	65 mm
Depth	30 mm

#### Environment

Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	25 gn (f= 10500 Hz) conforming to IEC 60068-2-6
Electrical shock protection class	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
Ambient air temperature for operation	-2060 °C
Protective treatment	TC
Dust zone	Zone 21 - 22
Product certifications	INERIS 04ATEX0014X[RETURN]IEC-Ex INE 17.0020X
Standards	IEC 60079-31 IEC 60079-0
Directives	2014/34/EU - ATEX directive

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.700 cm
Package 1 Width	13.300 cm
Package 1 Length	23.200 cm
Package 1 Weight	232.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.254 kg

### Offer Sustainability

Green Premium product
No need of specific recycling operations
WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which 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 go to www.P65Warnings.ca.gov
sustainability@tesensors.com

#### Contractual warranty

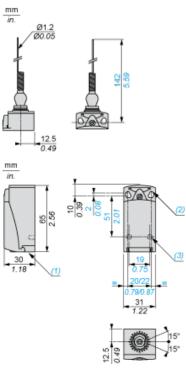
Warranty	18 months



## Product data sheet **Dimensions Drawings**

# **XCKD3906P16EX**

#### **Dimensions**

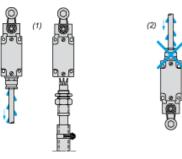


- (1) Tapped entry for M16 x 1.5
- (2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
   (3) 2 x Ø 3 holes for support studs, depth 4 mm.

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#### Mounting with Cable Entry

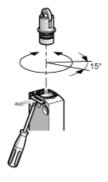
#### Position of Cable Gland



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

#### Setting-up

#### Plunger or Multi-directional Heads

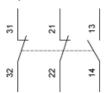


## Product data sheet Connections and Schema

# XCKD3906P16EX

### Wiring Diagram

3-pole NC + NC + NO Snap Action



## Product data sheet **Technical Description**

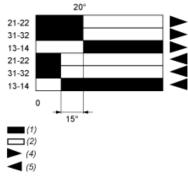
# XCKD3906P16EX

#### **Characteristics of Actuation**

#### Switch Actuation by Any Moving Part



### **Functionnal Diagram**



- (1) NC contact with positive opening operation
- Closed
- Tripping
- (2) (4) (5) Resetting