

Product data sheet

XCKD3906P16EX

Limit switch XCKD, cat's whisker, 2NC+1NO, ATEX/IECEx

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
ETIM classification	ETIM 9 - EC000030 - End switch
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
Switch actuation	By any moving part
Type of approach	Multi-directional approach
Number of poles	3
Product certifications	IEC-Ex INE 17.0020X INERIS 04ATEX0014X
Marking	II2 D-Ex tb IIIC T85°C Db IP66/67
Directives	2014/34/EU - ATEX directive
Standards	IEC 60079-0 IEC 60079-31
Indivisible sale quantity	1

Complementary

Mechanical durability	5000000 cycles
Minimum torque for tripping	0.13 N.m
Minimum actuation speed	0.01 m/mn
Maximum actuation speed	1 m/s

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
Neither TMSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Cable entry number	1 tapped entry for M16 x 1.5 cable gland (included) 4-8 mm
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
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
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 0.75 mm²
Positive opening	Without
Contacts insulation form	Zb
Contacts type and composition	2 NC + 1 NO
Contact operation	Snap action
[Uimp] rated impulse withstand voltage	4 kV conforming to IEC 60664, 4 kV conforming to IEC 60947-1
[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
[Ithe] conventional enclosed thermal current	6 A AC
Resistance across terminals	25 MOhm conforming to IEC 60255-7 category 3
Electrical shock protection class	Class I conforming to IEC 61140, class I conforming to NF C 20-030
Short-circuit protection	6 A cartridge fuse, type gG
Width	31 mm
Depth	30 mm

Environment

IP degree of protection	IP66 conforming to IEC 60529, IP67 conforming to IEC 60529
Ambient air temperature for operation	-20...60 °C
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
Protective treatment	TC
Dust zone	Zone 21 - 22

Offer Sustainability

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 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

Warranty

Warranty	18 months

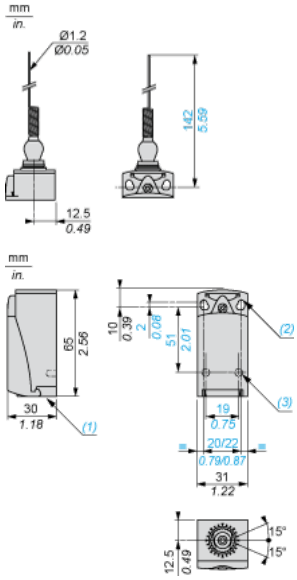
Packing Units

Country of origin	FR (France)

Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916058992
Package 1 height	8.7 cm
Package 1 width	13.3 cm
Package 1 length	23.2 cm
Package 1 weight	0.232 kg
Unit type of package 2	S03
Number of units in package 2	12
New Package 2 GTIN 14	13666916058999
Package 2 height	30 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	3.254 kg
Unit type of package 3	CAR
Number of units in package 3	1
New Package 3 GTIN 14	23666916058996
Package 3 height	23 cm
Package 3 width	10 cm
Package 3 length	9.5 cm
Package 3 weight	0.24 kg

Technical Drawings

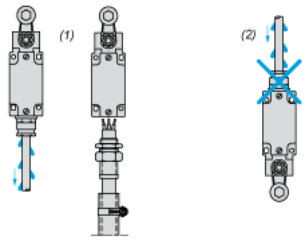
Dimensions



- (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 with Cable Entry

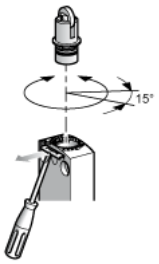
Position of Cable Gland



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

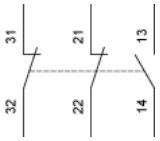
Setting-up

Plunger or Multi-directional Heads



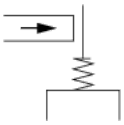
Wiring Diagram

3-pole NC + NC + NO Snap Action

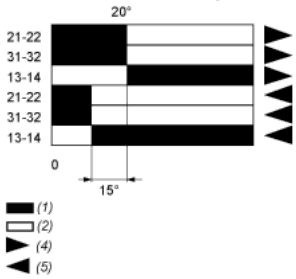


Characteristics of Actuation

Switch Actuation by Any Moving Part



Functionnal Diagram



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