Product data sheet Characteristics

XCKM3906H29EX

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



Range of productTelemecanique Limit switches XC StandardSeries nameStandard formatProduct or component typeLimit switchDevice short nameXCKMBody typeFixedHead typeMulti-directional headMaterialMetalFixing modeBy the bodyMovement of operating headMulti-directionalType of operatorSpring return cat"s whiskerSwitch actuationBy any moving partType of approachMulti-directional approachElectrical connectionScrew-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²Cable entry number1 tapped entry for M20 x 1.5 cable gland (included) 713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NO compositionContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.m trippingMaximum actuation1 m/s speedIP degree of protectionIP66 conforming to IEC 60529	Main	
Device traineDianter of the trained of tr	Range of product	Telemecanique Limit switches XC Standard
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Body typeFixedHead typeMulti-directional headMaterialMetalFixing modeBy the bodyMovement of operating headMulti-directionalType of operatorSpring return cat"s whiskerSwitch actuationBy any moving partType of approachMulti-directional approachElectrical connectionScrew-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²Cable entry number1 tapped entry for M20 x 1.5 cable gland (included) 713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NOContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation speed1 m/s		Limit switch
Head typeMulti-directional headMaterialMetalFixing modeBy the bodyMovement of operating headMulti-directionalType of operatorSpring return cat"s whiskerSwitch actuationBy any moving partType of approachMulti-directional approachElectrical connectionScrew-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²Cable entry number1 tapped entry for M20 x 1.5 cable gland (included) 713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NOContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation speed1 m/s	Device short name	ХСКМ
MaterialMetalFixing modeBy the bodyMovement of operating headMulti-directionalType of operatorSpring return cat"s whiskerSwitch actuationBy any moving partType of approachMulti-directional approachElectrical connectionScrew-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²Cable entry number1 tapped entry for M20 x 1.5 cable gland (included) 713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NOContact operationSnap actionNumber of steps1Positive openingWithoutMumbur of upper0.13 N.m trippingMaterial1 m/sSpeed1 m/s	Body type	Fixed
Fixing modeBy the bodyMovement of operating headMulti-directionalType of operatorSpring return cat"s whiskerSwitch actuationBy any moving partType of approachMulti-directional approachElectrical connectionScrew-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²Cable entry number1 tapped entry for M20 x 1.5 cable gland (included) 713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NOContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation1 m/s	Head type	Multi-directional head
Movement of operating headMulti-directionalType of operatorSpring return cat"s whiskerSwitch actuationBy any moving partType of approachMulti-directional approachElectrical connectionScrew-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²Cable entry number1 tapped entry for M20 x 1.5 cable gland (included) 713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NOContacts insulation formZbContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation1 m/s	Material	Metal
Instrument of operatorSpring return cat"s whiskerType of operatorSpring return cat"s whiskerSwitch actuationBy any moving partType of approachMulti-directional approachElectrical connectionScrew-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²Cable entry number1 tapped entry for M20 x 1.5 cable gland (included) 713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NOContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation1 m/s	Fixing mode	By the body
Switch actuationBy any moving partType of approachMulti-directional approachElectrical connectionScrew-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²Cable entry number1 tapped entry for M20 x 1.5 cable gland (included) 713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NOContacts insulation formZbContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation speed1 m/s		Multi-directional
Type of approachMulti-directional approachElectrical connectionScrew-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²Cable entry number1 tapped entry for M20 x 1.5 cable gland (included) 713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NOContacts insulation formZbContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation1 m/s	Type of operator	Spring return cat"s whisker
Electrical connectionScrew-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm²Cable entry number1 tapped entry for M20 x 1.5 cable gland (included) 713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NOContacts insulation formZbContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation speed1 m/s	Switch actuation	By any moving part
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713 mm 2 tapped entry for M20 x 1.5 cable glandNumber of poles3Contacts type and composition2 NC + 1 NOContacts insulation formZbContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation1 m/s	Electrical connection	
Contacts type and composition2 NC + 1 NOContacts insulation formZbContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation speed1 m/s	Cable entry number	713 mm
compositionZbContacts insulation formZbContact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation speed1 m/s	Number of poles	3
Contact operationSnap actionNumber of steps1Positive openingWithoutMinimum torque for tripping0.13 N.mMaximum actuation speed1 m/s	51	2 NC + 1 NO
Number of steps 1 Positive opening Without Minimum torque for tripping 0.13 N.m Maximum actuation speed 1 m/s	Contacts insulation form	Zb
Positive opening Without Minimum torque for tripping 0.13 N.m Maximum actuation speed 1 m/s	Contact operation	Snap action
Minimum torque for tripping 0.13 N.m Maximum actuation 1 m/s speed 1	Number of steps	1
tripping Maximum actuation 1 m/s speed	Positive opening	Without
speed	•	0.13 N.m
IP degree of protection IP66 conforming to IEC 60529		1 m/s
	IP degree of protection	IP66 conforming to IEC 60529

Complementary

Complementary	
Body 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, 24 V, 3 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, 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, 120 V, 1 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C



Mechanical durability	10000000 cycles
Marking	II2 D-Ex tb IIIC T85°C Db IP66/67
Width	63 mm
Height	64 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

0	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.500 cm
Package 1 Width	9.300 cm
Package 1 Length	23.300 cm
Package 1 Weight	328.000 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	4.421 kg

Offer Sustainability

Sustainable offer status	Green Premium product
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 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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty

18 months



Product data sheet Dimensions Drawings

XCKM3906H29EX

Dimensions



(1) 3 tapped entries M20 x 1.5 \emptyset : 2 elongated holes \emptyset 5.2 x 6.2



XCKM3906H29EX

Mounting with Cable Entry

Position of Cable Gland



(2) To be avoided



Product data sheet **Connections and Schema**

XCKM3906H29EX

Wiring Diagram

3-pole NC + NC + NO Snap Action





XCKM3906H29EX

Characteristics of Actuation

Switch Actuation by Any Moving Part



Functionnal Diagram



