

# Product data sheet

Specifications



## Limit switch, Limit switches XC Standard, XCKM, plunger, 2NC + NO, ATEX/IECEX

XCKM3910H29EX

### Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKM
Body type	Fixed
Head type	Plunger head
Material	Metal
Fixing mode	By the body
Movement of operating head	Linear
Type of operator	Spring return plunger metal
Switch actuation	On end
Type of approach	Vertical approach, 1 direction
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 0.75 mm <sup>2</sup>
Cable entry number	1 tapped entry for M20 x 1.5 cable gland (included) 7...13 mm 2 tapped entry for M20 x 1.5 cable gland
Number of poles	3
Contacts type and composition	2 NC + 1 NO
Contacts insulation form	Zb
Contact operation	Snap action
Number of steps	1
Positive opening	With
Minimum force for tripping	15 N
Maximum actuation speed	0.5 m/s
IP degree of protection	IP66 conforming to IEC 60529

### Complementary

Body material	Zamak
Positive opening minimum force	45 N
Minimum actuation speed	0.01 m/min
Contact code designation	B300, AC-15 (Ue = 240 V), Ie = 1.5 A conforming to EN 60947-5-1

B300, AC-15 (U<sub>e</sub> = 240 V), I<sub>e</sub> = 1.5 A conforming to IEC 60947-5-1 appendix A  
R300, DC-13 (U<sub>e</sub> = 250 V), I<sub>e</sub> = 0.1 A conforming to EN 60947-5-1  
R300, DC-13 (U<sub>e</sub> = 250 V), I<sub>e</sub> = 0.1 A conforming to IEC 60947-5-1 appendix A

<b>[I<sub>the</sub>] conventional enclosed thermal current</b>	6 A AC
<b>[U<sub>i</sub>] rated insulation voltage</b>	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
<b>Maximum resistance across terminals</b>	25 MOhm conforming to IEC 60255-7 category 3
<b>[U<sub>imp</sub>] rated impulse withstand voltage</b>	4 kV conforming to IEC 60664 4 kV conforming to IEC 60947-1
<b>Short-circuit protection</b>	6 A cartridge fuse, type gG
<b>Electrical durability</b>	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
<b>Mechanical durability</b>	20000000 cycles
<b>Marking</b>	I12 D-Ex tb IIIC T85°C Db IP66/67
<b>Width</b>	63 mm
<b>Height</b>	64 mm
<b>Depth</b>	30 mm

## Environment

<b>Shock resistance</b>	50 gn for 11 ms conforming to IEC 60068-2-27
<b>Vibration resistance</b>	25 gn (f= 10...500 Hz) conforming to IEC 60068-2-6
<b>Electrical shock protection class</b>	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Protective treatment</b>	TC
<b>Dust zone</b>	Zone 21 - 22
<b>Product certifications</b>	INERIS 04ATEX0014X IEC-Ex INE 17.0020X
<b>Standards</b>	EN/IEC 60079-31 EN/IEC 60079-0
<b>Directives</b>	2014/34/EU - ATEX directive

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	9 cm
<b>Package 1 Width</b>	9.5 cm
<b>Package 1 Length</b>	15.5 cm
<b>Package 1 Weight</b>	332 g
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	12
<b>Package 2 Height</b>	30 cm
<b>Package 2 Width</b>	30 cm
<b>Package 2 Length</b>	40 cm

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Package 2 Weight	4.456 kg
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## Offer Sustainability

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Sustainable offer status	Green Premium product
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REACH Regulation	<a href="#">REACH Declaration</a>
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EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
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Mercury free	Yes
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RoHS exemption information	Yes
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Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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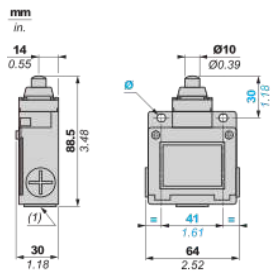
## Contractual warranty

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Warranty	18 months
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Dimensions

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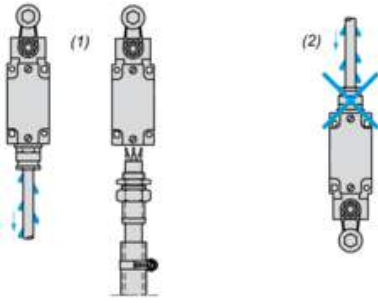
(1) 3 tapped entries M20 x 1.5

Ø : 2 elongated holes  $\varnothing 5.2 \times 6.2$

**Mounting with Cable Entry**

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**Position of Cable Gland**

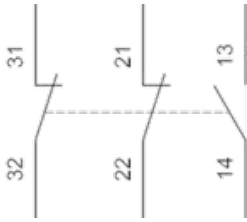


- (1) Recommended
- (2) To be avoided

**Wiring Diagram**

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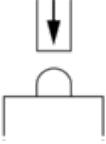
**3-pole NC + NC + NO Snap Action**



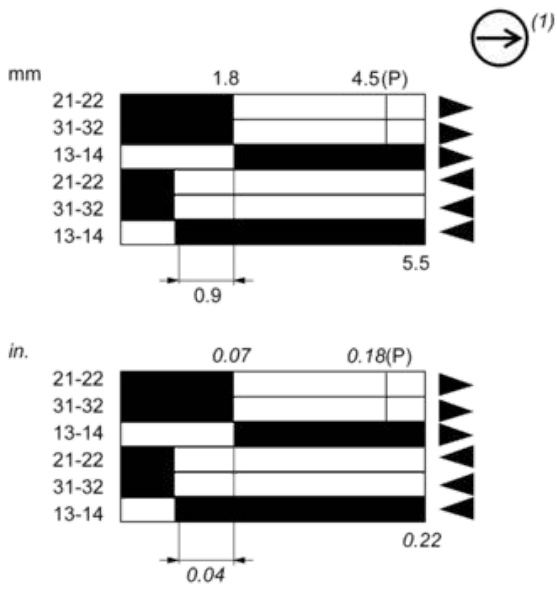
**Characteristics of Actuation**

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**Switch Actuation on End**



**Functionnal Diagram**



- (2)
- (3)
- ▶ (4)
- ◀ (5)

- (P) Positive opening point
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting

**Recommended replacement(s)**