

Product data sheet

Specifications



Limit switch, Limit switches XC Standard, XCKM, thermoplastic roller lever plunger, 1NC+1 NO, snap, M20

XCKM121H29

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
Body Material	Zamak
Fixing Mode	By the body
Movement Of Operating Head	Linear
Type Of Operator	Spring return roller lever plunger thermoplastic
Type Of Approach	Lateral approach, 1 direction
Cable Entry	3 entries tapped for M20 x 1.5 cable gland, cable outer diameter: 7...13 mm
Number Of Poles	2
Contacts Type And Composition	1 NC + 1 NO
Contact Operation	Snap action

Complementary

Switch Actuation	By 30° cam
Electrical Connection	Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm²
Contacts Insulation Form	Zb
Number Of Steps	1
Positive Opening	With
Positive Opening Minimum Force	24 N
Minimum Force For Tripping	8 N
Minimum Actuation Speed	0.01 m/min
Maximum Actuation Speed	1.5 m/s
Contact Code Designation	A300, AC-15 (Ue = 240 V), Ie = 3 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
[Ithe] Conventional Enclosed Thermal Current	10 A AC

Disclaimer: 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

[Ui] Rated Insulation Voltage	300 V conforming to UL 508 500 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	6 kV conforming to IEC 60664 6 kV conforming to IEC 60947-1
Short-Circuit Protection	10 A cartridge fuse, type gG
Electrical Durability	5000000 cycles, DC-13, inductive load type, 120 V, 4 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 24 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 48 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
Mechanical Durability	20000000 cycles
Width	64 mm
Height	64 mm
Depth	30 mm
Net Weight	0.3 kg
Terminals Description Iso N°1	(13-14)NO (21-22)NC

Environment

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
Ip Degree Of Protection	IP66 conforming to IEC 60529
Ik Degree Of Protection	IK05 conforming to IEC 62262
Electrical Shock Protection Class	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
Ambient Air Temperature For Operation	-25...70 °C
Ambient Air Temperature For Storage	-40...70 °C
Protective Treatment	TC
Product Certifications	CCC CSA UL
Standards	IEC 60947-5-1 IEC 60204-1 CSA C22.2 No 14 IEC 60204-1 UL 508 IEC 60947-5-1

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.300 cm
Package 1 Width	6.500 cm
Package 1 Length	14.800 cm
Package 1 Weight	308.000 g
Unit Type Of Package 2	S02

Number Of Units In Package 2	27
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	8.841 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.


[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



RoHS/REACH

Well-being performance

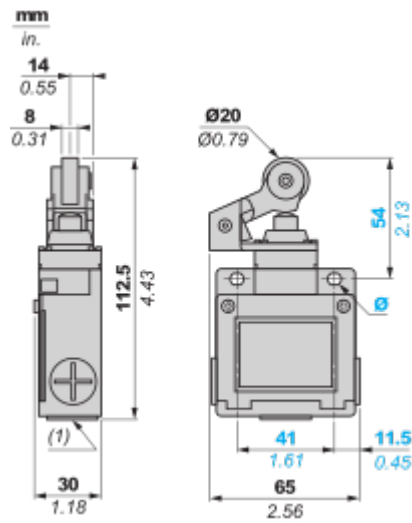
 Rohs Exemption Information [Yes](#)

Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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 Diisodecyl 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

Dimensions Drawings

Dimensions

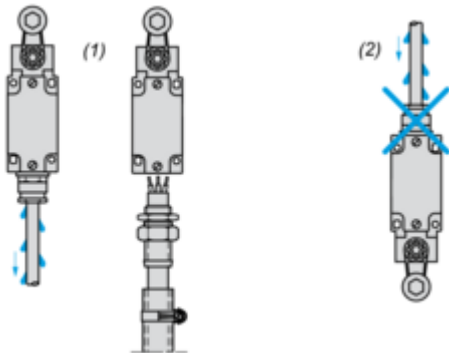


(1) 3 tapped entries M20 x 1.5
Ø : 2 elongated holes Ø 5.2 x 6.2

Mounting and Clearance

Mounting with Cable Entry

Position of Cable Gland

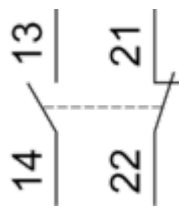


- (1) Recommended
- (2) To be avoided

Connections and Schema

Wiring Diagram

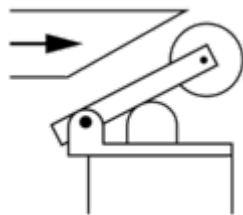
2-pole NC + NO Snap Action



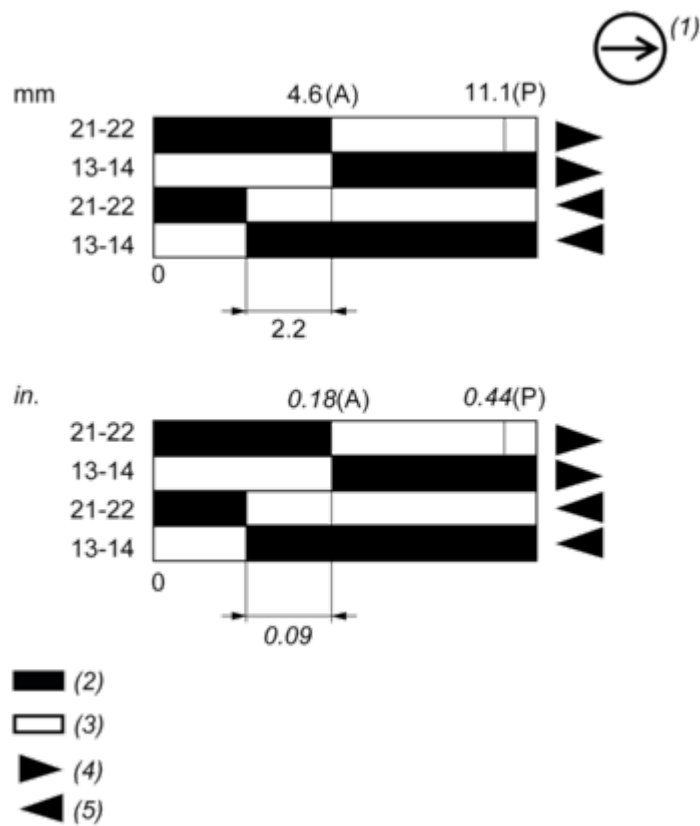
Technical Description

Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



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