

Product data sheet

Specifications



Limit switch, XC Standard, XCKJ, metal end plunger, 1NC+1 NO, snap action, 1/2NPT

XCKJ161H7

Main

Range Of Product	Telemecanique Limit switches XC Standard
Series Name	Standard format
Product Or Component Type	Limit switch
Device Short Name	XCKJ
Sensor Design	Form B conforming to CENELEC EN 50041
Body Type	Fixed
Head Type	Plunger head
Material	Metal
Body Material	Zamak
Head Material	Zamak
Fixing Mode	By the body
Movement Of Operating Head	Linear
Type Of Operator	Spring return plunger metal
Type Of Approach	Vertical approach, 1 direction
Cable Entry	1 entry tapped for 1/2" NPT cable gland
Number Of Poles	2
Contacts Type And Composition	1 NC + 1 NO
Contact Operation	Snap action

Complementary

Switch Actuation	On end
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	50 N
Minimum Force For Tripping	20 N
Maximum Actuation Speed	0.5 m/s
Repeat Accuracy	0.1 mm on the tripping points with 1 million operating cycles
[Ie] Rated Operational Current	3 A at 240 V, AC-15, A300 conforming to IEC 60947-5-1 appendix A 0.27 A at 250 V, DC-13, Q300 conforming to IEC 60947-5-1 appendix A

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

[Ithe] Conventional Enclosed Thermal Current	10 A
[Uij] 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, 10 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, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
Mechanical Durability	30000000 cycles
Width	40 mm
Height	77 mm
Depth	44 mm
Net Weight	0.43 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	IK07 conforming to IEC 62262
Overvoltage Category	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	TH
Product Certifications	UL CSA CCC
Standards	CENELEC EN 50041 IEC 60204-1 IEC 60947-5-1 CSA C22.2 No 14 UL 508 IEC 60947-5-1 IEC 60204-1

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.6 cm
Package 1 Width	4.2 cm
Package 1 Length	11.4 cm

Package 1 Weight	430 g
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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

✓ Mercury Free

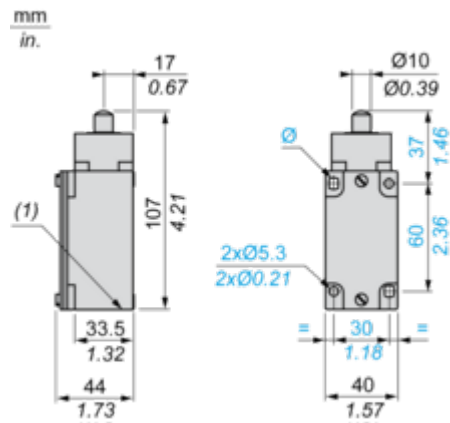
✓ Rohs Exemption Information [Yes](#)

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

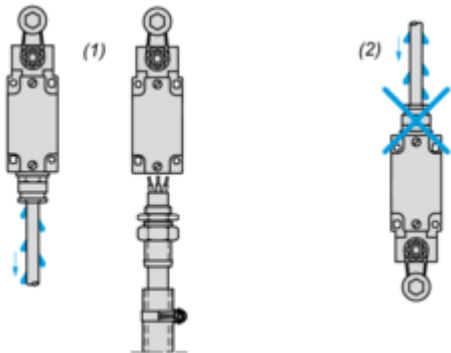


(1) 1 tapped entry 1/2" NPT

Mounting and Clearance

Mounting with Cable Entry

Position of Cable Gland

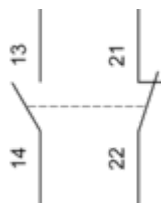


- (1) Recommended
- (2) To be avoided

Connections and Schema

Wiring Diagram

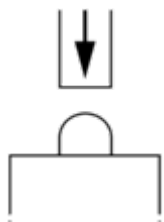
2-pole NC + NO Snap Action



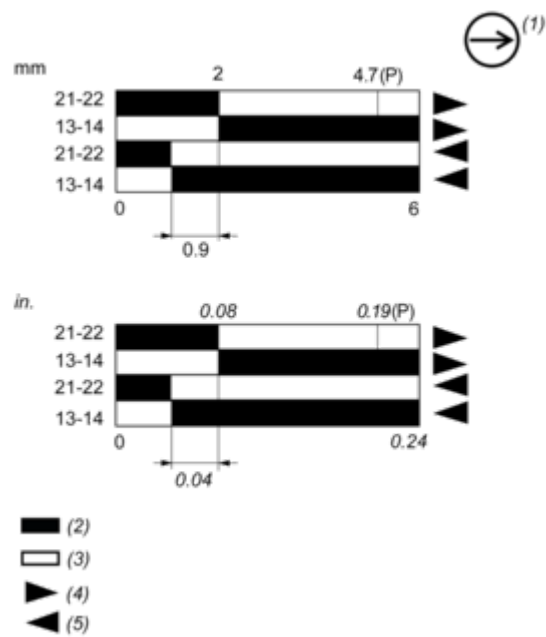
Technical Description

Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



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