



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

XCKJ161H7

IVI	a	ı	r	1
-----	---	---	---	---

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 0.342 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

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

1		
The manufacturent Section Sect	[le] rated operational current	
S00 V (collation degree 3) conforming to IEC 60047-1 Maximum resistance across 25 MOhm conforming to IEC 60056-7 category 3		10 A
Climp rated impulse withstand 6 kV conforming to IEC 000864 6 kV conforming to IEC 000867-51 appendix C 6 kV co	[Ui] rated insulation voltage	500 V (pollution degree 3) conforming to IEC 60947-1
Skv conforming to IEC 60947-1 Short-circuit protection		25 MOhm conforming to IEC 60255-7 category 3
Electrical durability		
Conforming to IEC 80947-5-1 appendix	Short-circuit protection	10 A cartridge fuse, type gG
Width 40 mm Height 77 mm Depth 44 mm Product weight 0.43 kg Terminals description ISO n°1 (13-14)NO (21-22)NC Environment (13-14)NO (21-22)NC Environment 50 gn for 11 ms conforming to IEC 60068-2-27 Vibration resistance 25 gn (#= 10500 Hz) conforming to IEC 60068-2-6 IP degree of protection IK07 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 60529 IK degree of protection IK0 conforming to IEC 60140 Class I conforming to IEC 60140 Class I conforming to IEC 60140 Class I conforming to IEC 60140 Class I conforming to IEC 60204 Ambient air temperature for obtained as IEC 60068-2-6 C2-030 Ambient air temperature for storage 4070 °C Protective treatment TH Product certifications UL CSA CCC CSA CCC CSA CCC 2X No 14 UL 508 IEC 60947-5-1	Electrical durability	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
Height	Mechanical durability	30000000 cycles
Depth 44 mm Product weight 0.43 kg Terminals description ISO n°1 (13-14)MO (21-22)NC Environment Shock resistance 50 gn for 11 ms conforming to IEC 60068-2-27 Vibration resistance 25 gn (= 10500 Hz) conforming to IEC 60068-2-6 IP degree of protection IP66 conforming to IEC 60069-2-6 IK degree of protection IK07 conforming to IEC 60059 IK degree of protection IK07 conforming to IEC 60140 (Class I conforming to IEC 60140 Class I conforming to IEC 60040 Class I conf	Width	40 mm
Product 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= 10500 Hz) conforming to IEC 60068-2-6 IP degree of protection IP66 conforming to IEC 60068-2-6 IK degree of protection IK07 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 60529 Overvoltage category Class I conforming to IEC 61140 Class I conforming to IEC 61140 Class I conforming to IEC 61140 Class I conforming to IEC 60529 Ambient air temperature for operation Ambient air temperature for storage Protective treatment TH Product certifications UL CSA CCC Standards CENELEC EN 50041 EN 60204-1 EN 60204-1 EN 60204-1 EN 60204-1 EC 60204-1 E	Height	77 mm
Terminals description ISO n°1	Depth	44 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 IP degree of protection IP66 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 60529 IK degree of protection IK07 conforming to IEC 60140 Class I conforming to IEC 61140 Class I conforming to NF C 20-030 Ambient air temperature for operation -2570 °C Ambient air temperature for storage The Protective treatment TH Product certifications UL CSA CCC Standards CENELEC EN 50041 EN 60204-1 EN 60947-5-1 IEC 60304-1 EN 60	Product weight	0.43 kg
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 IP degree of protection IR07 conforming to IEC 60529 IK degree of protection IK07 conforming to EN 50102 Overvoltage category Class I conforming to EC 61140 Class I conforming to NF C 20-030 Ambient air temperature for operation -4070 °C Ambient air temperature for storage The Product certifications UL. CSA CCC Standards CENELEC EN 50041 EN 60204-1 EN 6024-51 EC 6024-1 EN 60947-5-1 CSA C22.2 No 14 UL 508 IEC 6024-1 IEC 6024-1 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	Terminals description ISO n°1	
Vibration resistance 25 gn (f= 10500 Hz) conforming to IEC 60068-2-6 IP degree of protection IP66 conforming to IEC 60529 IK degree of protection IK07 conforming to EN 50102 Overvoltage category Class I conforming to EN 50102 Ambient air temperature for operation -2570 °C Ambient air temperature for storage The End of Conforming to NF C 20-030 Ambient air temperature for storage The End of Conforming to NF C 20-030 Ambient air temperature for storage The End of Conforming to NF C 20-030 Ambient air temperature for storage The End of Conforming to NF C 20-030 Ambient air temperature for storage The End of Conforming to NF C 20-030 Ambient air temperature for storage The End of Conforming to NF C 20-030 Ambient air temperature for storage The End of Conforming to NF C 20-030 Ambient air temperature for class I conforming	Environment	
IP degree of protection IP66 conforming to IEC 60529 IK degree of protection IK07 conforming to EN 50102 Overvoltage category Class I conforming to IEC 61140 Class I conforming to NF C 20-030 Ambient air temperature for operation -2570 °C Ambient air temperature for storage Protective treatment TH Product certifications UL CSA CCC Standards CENELEC EN 50041 EN 60204-1 EN 60204-1 EN 60204-1 EN 60204-1 IEC 60947-5-1 IEC 60947-5-1 IEC 60204-1 IEC 60204-1 Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 Package 1 Height 3.6 cm Package 1 Width 11.4 cm	Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
IK degree of protection IK07 conforming to EN 50102 Overvoltage category Class I conforming to IEC 61140 Class I conforming to NF C 20-030 Ambient air temperature for operation Ambient air temperature for storage Protective treatment TH Product certifications UL CSA CCC Standards CENELEC EN 50041 EN 60204-1	Vibration resistance	25 gn (f= 10500 Hz) conforming to IEC 60068-2-6
Overvoltage category Class I conforming to IEC 61140 Class I conforming to NF C 20-030 Ambient air temperature for operation Ambient air temperature for storage Protective treatment TH Product certifications UL CSA CCC Standards CENELEC EN 50041 EN 60204-1 EN 60204-1 EN 60947-5-1 IEC 60204-1 IEC	IP degree of protection	IP66 conforming to IEC 60529
Class I conforming to NF C 20-030 Ambient air temperature for operation Ambient air temperature for storage Protective treatment TH Product certifications UL CSA CCC Standards CENELEC EN 50041 EN 60204-1 EN 60204-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 IEC 60204-1 Packing Units Unit Type of Package 1 Package 1 Height 3.6 cm Package 1 Width 4.2 cm Package 1 Length 11.4 cm	IK degree of protection	IK07 conforming to EN 50102
operation Ambient air temperature for storage Protective treatment TH Product certifications UL CSA CCC Standards CENELEC EN 50041 EN 60204-1 EN 60204	Overvoltage category	
## Protective treatment		-2570 °C
Product certifications		-4070 °C
CSA CCC	Protective treatment	TH
EN 60204-1 EN 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 Package 1 Height 3.6 cm Package 1 Width 4.2 cm Package 1 Length 11.4 cm	Product certifications	CSA
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	Standards	EN 60204-1 EN 60947-5-1 CSA C22.2 No 14 UL 508 IEC 60947-5-1
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	Packing Units	
Package 1 Height 3.6 cm Package 1 Width 4.2 cm Package 1 Length 11.4 cm		PCE
Package 1 Width 4.2 cm Package 1 Length 11.4 cm	Number of Units in Package 1	1
Package 1 Length 11.4 cm	Package 1 Height	3.6 cm
	Package 1 Width	4.2 cm
Package 1 Weight 430 g	Package 1 Length	11.4 cm
	Package 1 Weight	430 g

Offer Sustainability

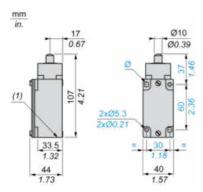
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
California proposition 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
Contractual warranty	

Warranty 18 months

XCKJ161H7

Dimensions Drawings

Dimensions



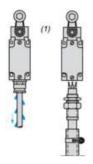
(1) 1 tapped entry 1/2" NPT

XCKJ161H7

Mounting and Clearance

Mounting with Cable Entry

Position of Cable Gland





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

XCKJ161H7

Connections and Schema

Wiring Diagram

2-pole NC + NO Snap Action



XCKJ161H7

Technical Description

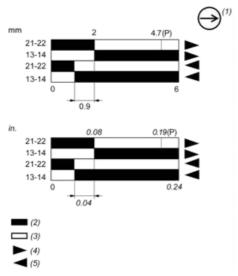
Characteristics of Actuation

Switch Actuation on End



Technical Description

Functionnal Diagram



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

Recommended replacement(s)