

# Product data sheet

## Characteristics

# XCKJ10513H29

Limit switch, XC Standard, XCKJ, steel roller lever, 1NC+1 NO, snap action, M20



### 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 A CENELEC EN 50041
Body type	Fixed
Head type	Rotary head
Material	Metal
Body Material	Zamak
Head material	Zamak
Fixing Mode	By the body
Movement of operating head	Rotary
Type of operator	Spring return roller lever metal
Type of approach	Lateral approach, 1 or 2 programmable direction
Cable entry	1 entry tapped for M20 x 1.5 cable gland 0.28...0.51 in (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 1 x 0.34...2 x 1.5 mm <sup>2</sup>
Contacts insulation form	Zb
Number of steps	1
Positive opening	With
Positive opening minimum torque	4.43 lbf.in (0.5 N.m)
Minimum torque for tripping	2.21 lbf.in (0.25 N.m)
Maximum actuation speed	4.92 ft/s (1.5 m/s)
[Ie] rated operational current	3 A 240 V, AC-15, A300 EN/IEC 60947-5-1 appendix A 0.27 A 250 V, DC-13, Q300 EN/IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	10 A
[Ui] rated insulation voltage	300 VUL 508 500 V 3)IEC 60947-1 300 VCSA C22.2 No 14
Maximum resistance across terminals	25 MOhm IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	6 KV IEC 60664 6 kV IEC 60947-1
Short-circuit protection	10 A cartridge fuse gG
Electrical durability	5000000 Cycles, DC-13, inductive, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, inductive, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C
Mechanical durability	30000000 cycles
Width	1.57 in (40 mm)

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Height	3.03 in (77 mm)
Depth	1.73 in (44 mm)
Net Weight	1.08 lb(US) (0.49 kg)
Terminals description ISO n°1	(21-22)NC (13-14)NO

### Environment

Shock resistance	50 gn 11 ms IEC 60068-2-27
Vibration resistance	25 gn 10...500 Hz)IEC 60068-2-6
IP degree of protection	IP66 conforming to IEC 60529
IK degree of protection	IK07 EN 50102
Overvoltage category	Class I IEC 61140 Class I NF C 20-030
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Protective treatment	TH
Product Certifications	UL CCC CSA
Standards	UL 508 EN 60947-5-1 IEC 60204-1 EN 60204-1 CENELEC EN 50041 CSA C22.2 No 14 IEC 60947-5-1

### Ordering and shipping details

Category	22411-LIMIT SWITCHES,IEC,XCKJ
Discount Schedule	T
GTIN	3389110742916
Nbr. of units in pkg.	1
Package weight(Lbs)	17.00 oz (482.0 g)
Returnability	Yes
Country of origin	ID

### Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.69 in (4.3 cm)
Package 1 width	2.76 in (7 cm)
Package 1 Length	5.12 in (13 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	18
Package 2 Weight	20.13 lb(US) (9.13 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Unit Type of Package 3	P06
Number of Units in Package 3	288
Package 3 Weight	340.83 lb(US) (154.596 kg)
Package 3 Height	30.31 in (77 cm)
Package 3 width	31.50 in (80 cm)
Package 3 Length	23.62 in (60 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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>
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>

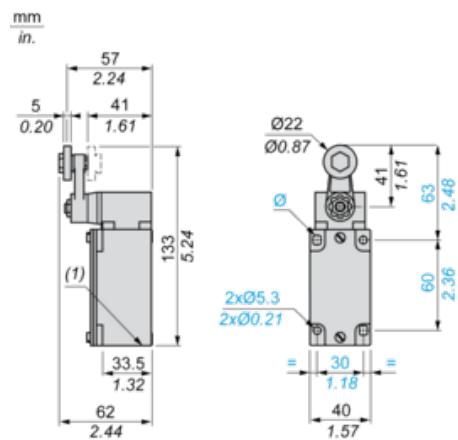
## Contractual warranty

Warranty	18 months
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Dimensions

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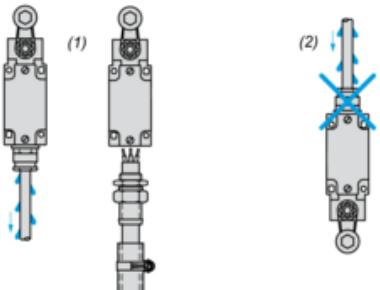
(1) 1 tapped entry M20 x 1.5

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### Mounting with Cable Entry

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#### Position of Cable Gland



(1) Recommended

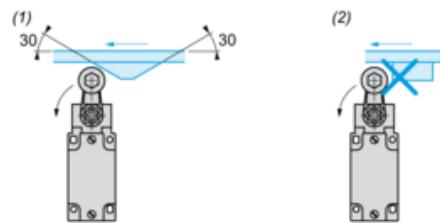
(2) To be avoided

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### Mounting with Rotary Heads and Levers

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#### Type of Cam



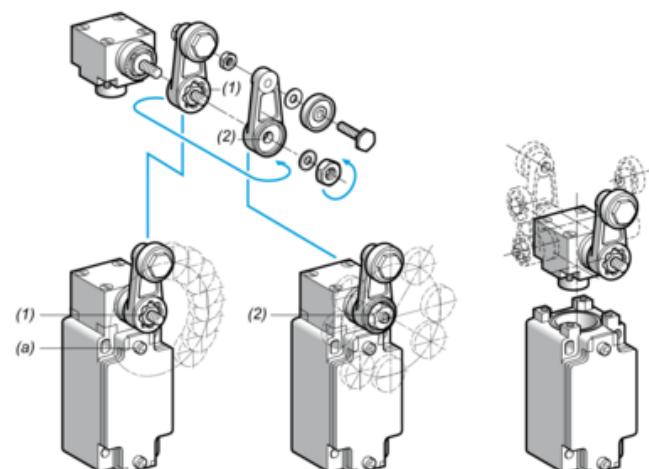
(1) Recommended

(2) To be avoided

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### Setting-up with Lever Head

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(1) 5° steps throughout 360° / Tightening torque (Min : 1) (Max : 1.5)

(2) 45° steps throughout 360° / Tightening torque (Min : 1) (Max : 1.5)

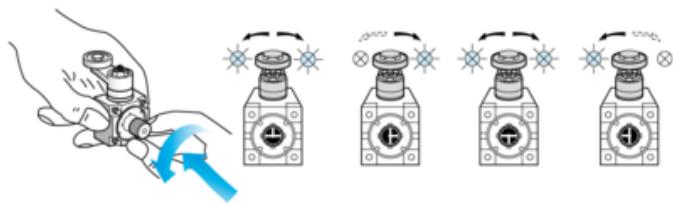
(a) Tightening torque (Min : 1) (Max : 1.5)

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### Setting-up with Head ZCKE05

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## Direction of Actuation Programming

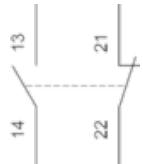


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Wiring Diagram

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2-pole NC + NO Snap Action

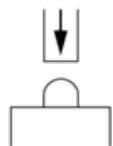


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### Characteristics of Actuation

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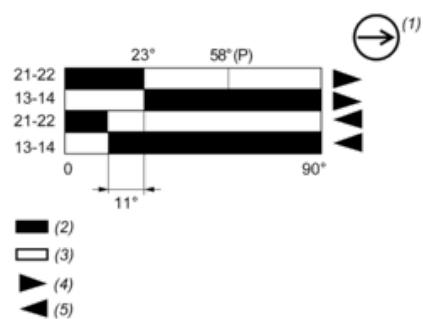
#### Switch Actuation on End



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### Functionnal Diagram

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(P) Positive opening point

(1) NC contact with positive opening operation

(2) Closed

(3) Open

(4) Tripping

(5) Resetting