



Limit switch, Limit switches XC Standard, XCKS, thermoplastic roller lever, 1NC+1 NO, snap action, M20

XCKS131H29

IVIAIII	
Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	xcks
Sensor design	Form A conforming to CENELEC EN 50041
Body type	Fixed
Head type	Rotary head
Material	Plastic
Body material	Plastic
Head material	Plastic
Fixing mode	By the body
Movement of operating head	Rotary
Type of operator	Spring return roller lever thermoplastic
Type of approach	Lateral approach, 1 or 2 programmable direction
Cable entry	1 entry tapped for M20 x 1.5 cable gland, cable outer diameter: 713 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 0.342 x 1.5 mm²
Contacts insulation form	Zb
Number of steps	1
Positive opening	With
Positive opening minimum torque	0.15 N.m
Minimum torque for tripping	0.1 N.m
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 EN/IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to EN/IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	10 A AC
[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, 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	20000000 cycles
Width	40 mm
Height	130 mm
Depth	60 mm
Net weight	0.16 kg
Terminals description ISO n°1	(13-14)NO (21-22)NC
Environment	
Shock resistance	40 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	IP67 conforming to IEC 60529 IP66 conforming to IEC 60529
IK degree of protection	IK05 conforming to EN 50102
Electrical shock protection class	Class II conforming to IEC 61140 Class II conforming to NF C 20-030
Overvoltage category	Class II conforming to IEC 61140 Class II conforming to NF C 20-030
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4070 °C
Protective treatment	TC
Product certifications	CCC UL CSA
Standards	EN 60204-1 CSA C22.2 No 14 IEC 60947-5-1
	EN 60947-5-1 UL 508 IEC 60204-1 CENELEC EN 50041
Packing Units	UL 508 IEC 60204-1
Packing Units Unit Type of Package 1	UL 508 IEC 60204-1
	UL 508 IEC 60204-1 CENELEC EN 50041

Package 1 Width	9.4 cm
Package 1 Length	12.8 cm
Package 1 Weight	176.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.39 kg
Offer Sustainability	
Sustainable offer status	Green Premium product

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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
Circularity Profile	End of Life Information
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

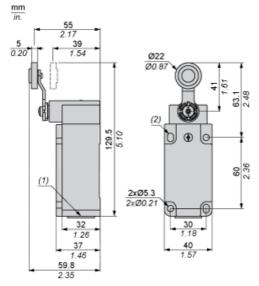
Contractual warranty

Warranty 18 months

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Dimensions Drawings

Dimensions



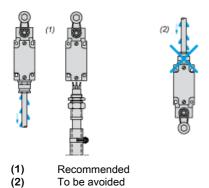
- (1) (2) 1 tapped entry for M20 x 1.5 2 elongated holes Ø 5.3 x 7.3.

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Mounting and Clearance

Mounting with Cable Entry

Position of Cable Gland

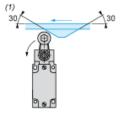


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Mounting and Clearance

Mounting with Rotary Heads and Levers

Type of Cam





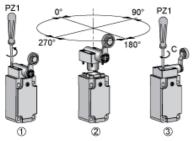
(1) Recommended (2) To be avoided

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Mounting and Clearance

Setting-up

Head Rotation Adjustment



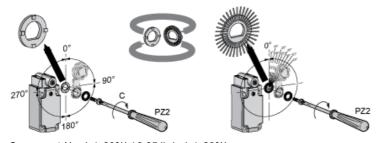
C: 1 Nm (+/- 20%) / 8.85 lb-in (+/- 20%)

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Mounting and Clearance

Setting-up

Lever Angle Adjustment



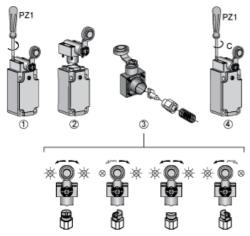
C: 1 Nm (+/- 20%) / 8.85 lb-in (+/- 20%)

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Mounting and Clearance

Setting-up with Head ZCKD05

Direction of Actuation Programming



C: 1 Nm (+/- 20%) / 8.85 lb-in (+/- 20%)

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Connections and Schema

Wiring Diagram

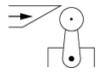
2-pole NC + NO Snap Action

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Technical Description

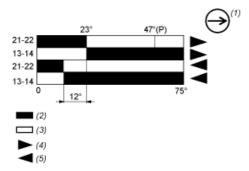
Characteristics of Actuation

Switch Actuation by 30° Cam



Technical Description

Functionnal Diagram



- Positive opening point NC contact with positive opening operation Closed
- Open
- Tripping Resetting

Recommended replacement(s)