

Product data sheet

XCKS139

Limit switch XCKS, roller lever, 1NC+1NO, Pg13 cable entry

Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKS
Device presentation	Complete product
ETIM classification	ETIM 9 - EC000030 - End switch
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 elastomer roller diameter 50 mm
Switch actuation	By 30° cam
Type of approach	Lateral approach, 1 or 2 programmable direction
Number of poles	2
Product certifications	CCC CSA UL
Standards	CENELEC EN 50041 CSA C22.2 No 14 IEC 60204-1 IEC 60947-5-1 UL 508
Indivisible sale quantity	1

Complementary

Mechanical durability	20000000 cycles
Minimum torque for tripping	0.1 N.m
Minimum actuation speed	0.01 m/mn
Maximum actuation speed	1.5 m/s

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Cable entry	1 entry tapped for Pg 13.5 cable gland, cable outer diameter: 9-12 mm
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
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
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm²
Positive opening	Without
Contacts insulation form	Zb
Contacts type and composition	1 NC + 1 NO
Terminals description ISO n°1	(13-14)NO (21-22)NC
Contact operation	Snap action
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60664, 6 kV conforming to IEC 60947-1
[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
Overvoltage category	Class II conforming to IEC 61140, class II conforming to NF C 20-030
[Ithe] conventional enclosed thermal current	10 A AC
Resistance across terminals	25 MOhm conforming to IEC 60255-7 category 3
Electrical shock protection class	Class II conforming to IEC 61140, class II conforming to NF C 20-030
Short-circuit protection	10 A cartridge fuse, type gG
Width	50 mm
Depth	67 mm
Product weight	0.175 kg

Environment

IK degree of protection	IK05 conforming to IEC 62262
IP degree of protection	IP67 conforming to IEC 60529, IP66 conforming to IEC 60529
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...70 °C
Shock resistance	40 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	25 gn (f= 10-500 Hz) conforming to IEC 60068-2-6
Protective treatment	TC

Offer Sustainability

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

Warranty

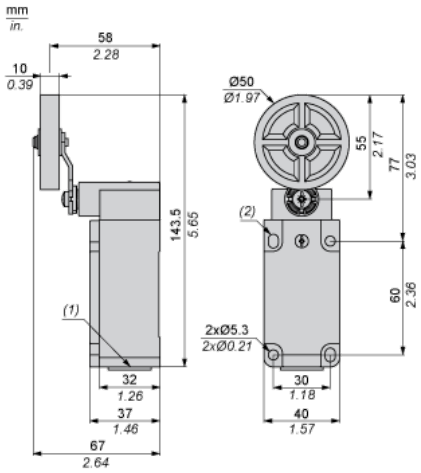
Warranty	18 months

Packing Units

Country of origin	ID (Indonesia)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916053843
Package 1 height	5 cm
Package 1 width	8.9 cm
Package 1 length	15 cm
Package 1 weight	0.201 kg
Unit type of package 2	S02
Number of units in package 2	12
New Package 2 GTIN 14	13666916053840
Package 2 height	15 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	2.978 kg
New Package 3 GTIN 14	23666916053847

Technical Drawings

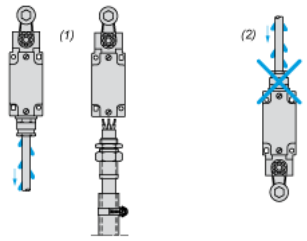
Dimensions



- (1) 1 tapped entry for Pg 13.5 cable gland
- (2) 2 elongated holes Ø 5.3 x 7.3.

Mounting with Cable Entry

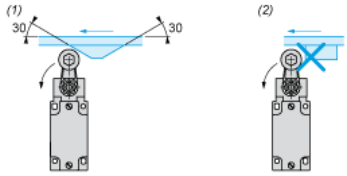
Position of Cable Gland



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

Mounting with Rotary Heads and Levers

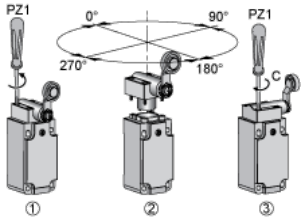
Type of Cam



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

Setting-up

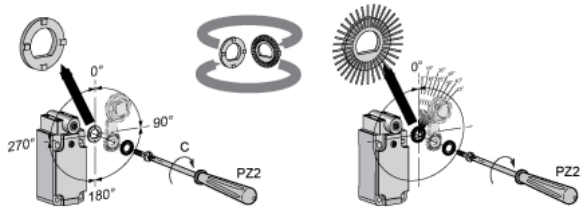
Head Rotation Adjustment



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

Setting-up

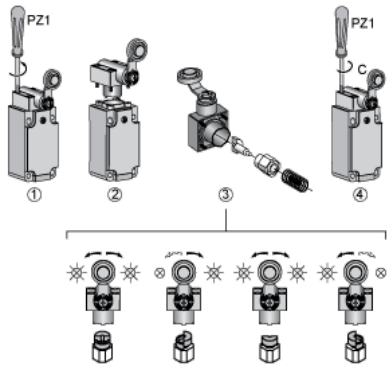
Lever Angle Adjustment



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

Setting-up with Head ZCKD05

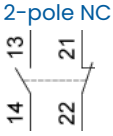
Direction of Actuation Programming



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

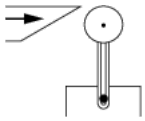
Wiring Diagram

2-pole NC + NO Snap Action

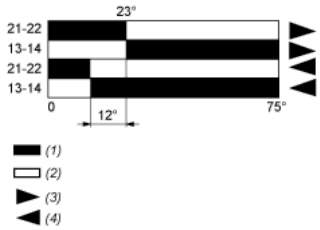


Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



- (1) Closed
- (2) Open
- (3) Tripping
- (4) Resetting