Product data sheet
Characteristics

XCKS149H29
limit switch XCKS - elastomer roller lever Ø50 mm - 1NC+1NO - snap - M20



Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKS
Sensor design	-
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 variable length, roller diameter 50 mm
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: 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, clamping capacity: 1 x 0.34...2 x 1.5 mm²
Contacts insulation form	Zb
Number of steps	1
Positive opening	Without
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 IEC 60664 6 kV 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	50 mm

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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Height	133…188 mm
Depth	65 mm
Net weight	0.18 kg
Terminals description ISO n°1	(21-22)NC (13-14)NO

Environment

Shock resistance	40 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	20 gn (f= 10…500 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	-25…70 °C
Ambient air temperature for storage	-40…70 °C
Protective treatment	TC
Product certifications	CSA CCC UL
Standards	EN 60947-5-1 IEC 60947-5-1 EN 60204-1 CENELEC EN 50041 CSA C22.2 No 14 IEC 60204-1 UL 508

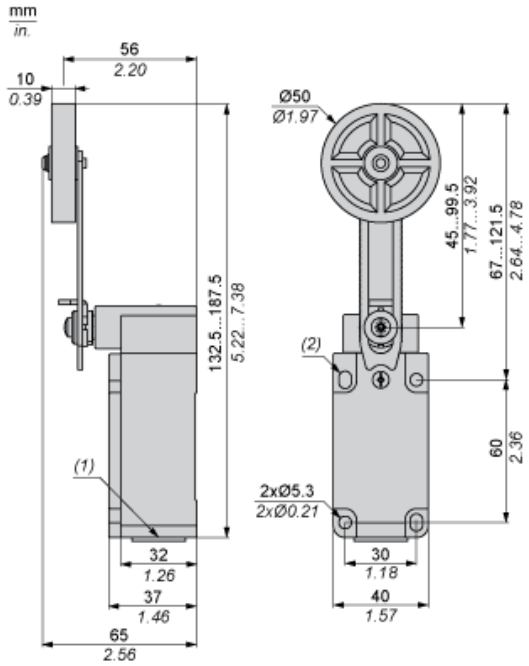
Packing Units

Package 1 Weight	0.195 kg
Package 1 Height	1.500 dm
Package 1 width	0.580 dm
Package 1 Length	0.900 dm

Contractual warranty

Warranty	18 months

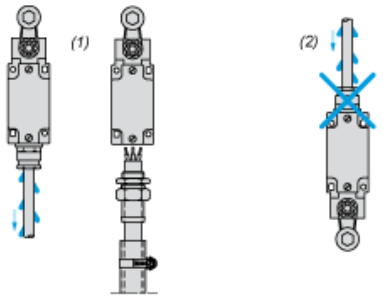
Dimensions



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

Mounting with Cable Entry

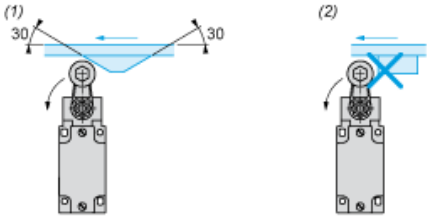
Position of Cable Gland



(1) Recommended
(2) To be avoided

Mounting with Rotary Heads and Levers

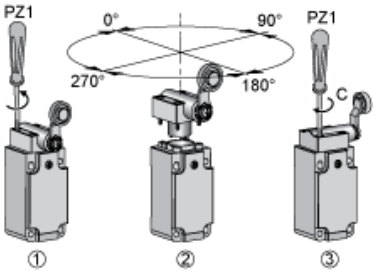
Type of Cam



(1) Recommended
(2) To be avoided

Setting-up

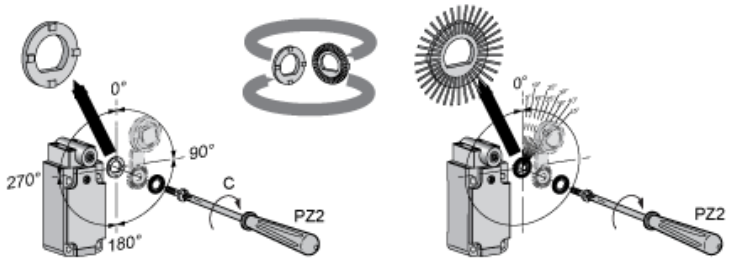
Head Rotation Adjustment



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

Setting-up

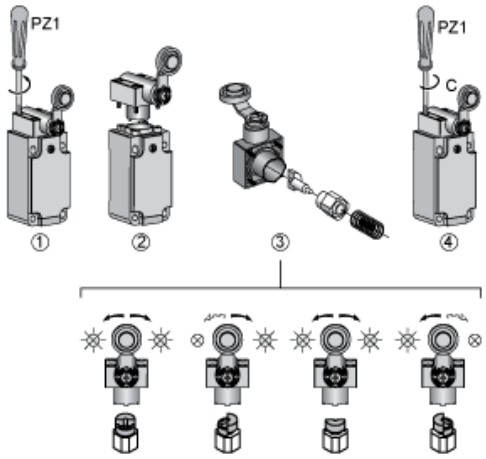
Lever Angle Adjustment



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%)

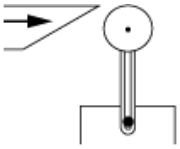
Wiring Diagram

2-pole NC + NO Snap Action

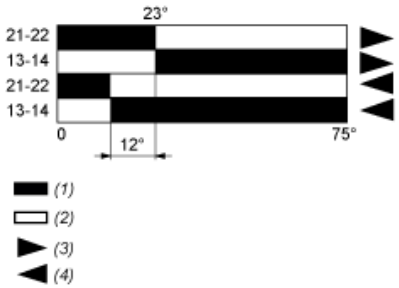


Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



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