

XCKS501

Limit switch, Limit switches XC Standard, XCKS, metal end plunger, 1NC+1 NO, slow break, Pg13



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	Form B CENELEC EN 50041
Body type	Fixed
Head type	Plunger head
Material	Plastic
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Head material	Plastic
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 Pg 13.5 cable gland 0.35...0.47 in (9...12 mm)
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Slow-break, break before make

Complementary

Switch actuation	On end
Electrical connection	Screw-clamp terminals 1 x 0.5...2 x 2.5 mm ²
Contacts insulation form	Zb
Number of steps	1
Positive opening	With
Positive opening minimum force	30 N
Minimum force for tripping	15 N
Minimum actuation speed	6 m/min
Maximum actuation speed	1.64 ft/s (0.5 m/s)
Repeat accuracy	0.05 mm on the tripping points with 1 million operating cycles
Contact code designation	A300, AC-15 (Ue = 240 V), Ie = 3 A EN/IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A EN/IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	10 A AC
[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	25000000 cycles
Width	1.57 in (40 mm)
Height	4.09 in (104 mm)
Depth	1.46 in (37 mm)
Net Weight	0.28 lb(US) (0.125 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	IP67 conforming to IEC 60529 IP66 conforming to IEC 60529
IK degree of protection	IK05 EN 50102
Electrical shock protection class	Class II IEC 61140 Class II NF C 20-030
Overvoltage category	Class II IEC 61140 Class II 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	TC
Product Certifications	CSA CCC UL
Standards	IEC 60947-5-1 UL 508 CENELEC EN 50041 EN 60204-1 CSA C22.2 No 14 EN 60947-5-1 IEC 60204-1

Ordering and shipping details

Category	22417-LIMIT SWITCH, IEC, CLASSIC
Discount Schedule	T
GTIN	3389110646931
Returnability	No
Country of origin	ID

Packing Units

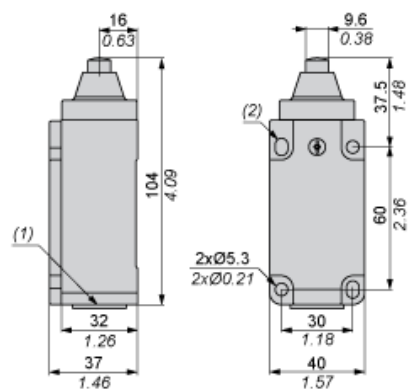
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.57 in (4.0 cm)
Package 1 Width	5.12 in (13.0 cm)
Package 1 Length	2.36 in (6.0 cm)
Package 1 Weight	3.81 oz (108.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	36
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	9.57 lb(US) (4.343 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
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
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
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

Contractual warranty

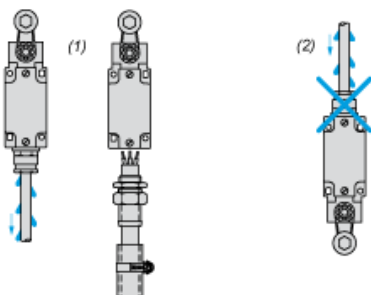
Warranty	18 months
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$$\frac{\text{mm}}{\text{in.}}$$


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

Mounting with Cable Entry

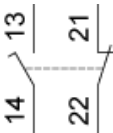
Position of Cable Gland



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

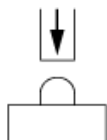
Wiring Diagram

2-pole NC + NO Break Before Make, Slow Break

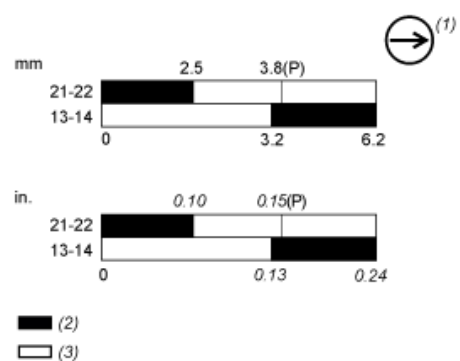


Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



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