Product data sheet
Characteristics

XCKT2102P16
Limit switch, Limit switches XC Standard, XCKT, steel roller plunger, 1NC+1 NO, snap, M16

Main

Range of Product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or Component Type	Limit switch
Device short name	XCKT
Sensor design	Compact form C CENELEC EN 50047
Body type	Fixed
Head type	Plunger head
Material	Plastic
Body material	Plastic
Head material	Zamak
Fixing Mode	By the body
Movement of operating head	Linear
Type of operator	Spring return roller plunger metal
Type of approach	Lateral approach, 2 directions
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 mm²
Cable entry	2 entries tapped for M16 x 1.5 cable gland 0.2…0.3 in (4…8 mm)
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	36 N
Minimum force for tripping	12 N
Maximum actuation speed	1.6 ft/s (0.5 m/s)
Repeat accuracy	0.1 mm on the tripping points with 1 million operating cycles
Contact code designation	A300, AC-15 (Ue = 240 V), Ie = 3 A 10 A IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A IEC 60947-5-1 appendix 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, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles
Width	2.3 in (58 mm)
Height	2.008 in (51 mm)
Depth	1.2 in (30 mm)

Net Weight	0.231 lb(US) (0.105 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 IP67 conforming to IEC 60529
IK degree of protection	IK04 conforming to IEC 62262
Electrical shock protection class	Class II IEC 61140 Class II NF C 20-030
Ambient Air Temperature for Operation	-13.0000000000…158.0000000000 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40.0000000000…158.0000000000 °F (-40…70 °C)
Protective treatment	TC
Product Certifications	CSA[RETURN]UL[RETURN]CCC
Standards	UL 508 IEC 60204-1 IEC 60947-5-1 CSA C22.2 No 14

Ordering and shipping details

Category	US1000T22418
Discount Schedule	000T
GTIN	3389110214383
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.299 in (3.300 cm)
Package 1 Width	2.520 in (6.400 cm)
Package 1 Length	3.858 in (9.800 cm)
Package 1 Weight	3.351 oz (95.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	58
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	13.239 lb(US) (6.005 kg)

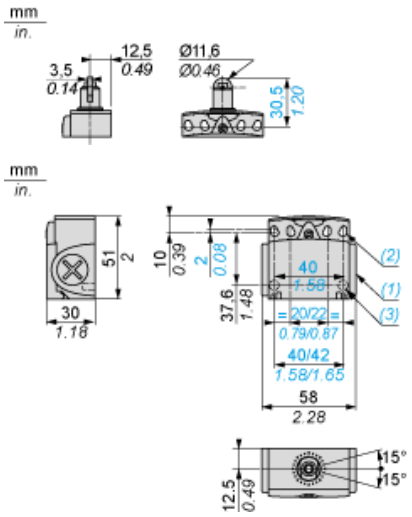
Offer Sustainability

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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months

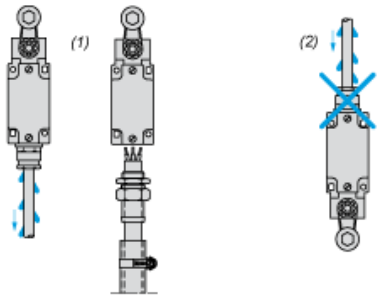
Dimensions



(1) Tapped entry for M16 x 1.5
(2) 4 elongated holes Ø 4.3 x 6.3 mm on 22/42mm ctrs, 4 holes Ø 4.3 on 20/40 mm ctrs.
(3) 2 x Ø 3 holes for support studs, depth 4 mm.

Mounting with Cable Entry

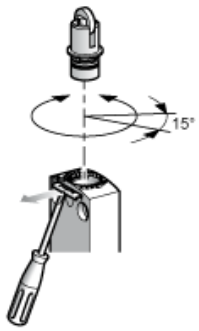
Position of Cable Gland



(1) Recommended
(2) To be avoided

Setting-up

Plunger or Multi-directional Heads

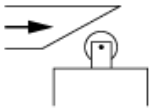


Wiring Diagram

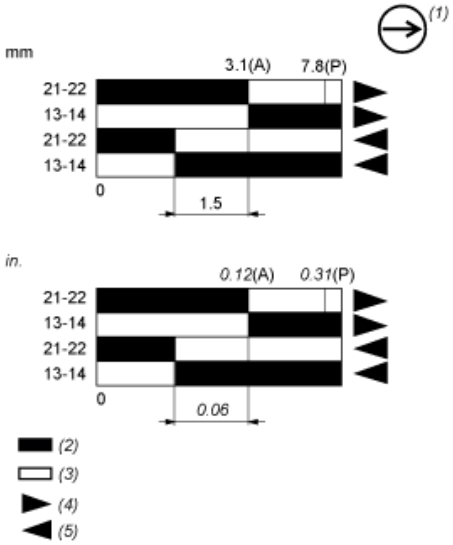
2-pole NC + NO Snap Action

Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



(P) Positive opening point
(A) Cam displacement
(1) NC contact with positive opening operation
(2) Closed
(3) Open
(4) Tripping
(5) Resetting