

Product data sheet

XCTR2502P16

Limit switch XCTR, steel roller plunger, 1NC+1NO, M16 cable entry

Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCTR
Sensor design	Compact
Device presentation	Complete product
ETIM classification	ETIM 9 - EC000030 - End switch
Body type	Fixed
Head type	Plunger head
Material	Plastic
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Head material	Zamak
Fixing mode	By the body
Movement of operating head	Linear
Type of operator	Spring return roller plunger metal
Switch actuation	By 30° cam
Type of approach	Lateral approach, 2 directions
Number of poles	2
Product certifications	CSA UL
Standards	CSA C22.2 No 14 IEC 60204-1 IEC 60947-5-1 UL 508
Indivisible sale quantity	1

Complementary

Minimum force for tripping	12 N
Maximum actuation speed	0.5 m/s
Reset	With
Cable entry	2 entries tapped for M16 x 1.5 cable gland, cable outer diameter: 4-8 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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Contact code designation	A300, AC-15 (Ue = 240 V), Ie = 3 A, Ithe = 10 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, 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, 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, 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 0.5...2 x 2.5 mm²
Positive opening	With
Positive opening minimum force	36 N
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	Slow-break, break before make
[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
Resistance across terminals	25 MOhm conforming to IEC 60255-7 category 3
Short-circuit protection	10 A cartridge fuse, type gG
Width	58 mm
Depth	30 mm
Product weight	0.125 kg

Environment

IK degree of protection	IK04 conforming to IEC 62262
IP degree of protection	IP66 conforming to IEC 60529, IP67 conforming to IEC 60529
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...70 °C
Shock resistance	50 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

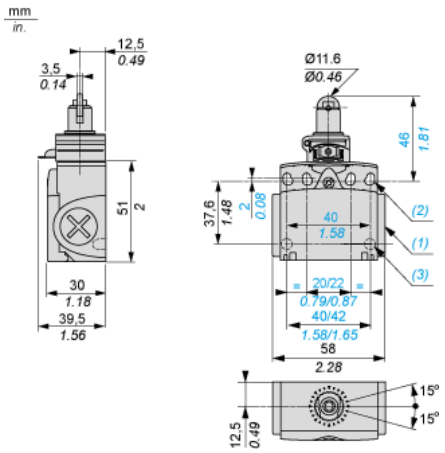
Warranty	18 months

Packing Units

Country of origin	FR (France)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916092644
Package 1 height	5.3 cm
Package 1 width	9 cm
Package 1 length	17 cm
Package 1 weight	0.125 kg
Unit type of package 2	S03
Number of units in package 2	30
New Package 2 GTIN 14	13666916092641
Package 2 height	30 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	5.187 kg
New Package 3 GTIN 14	23666916092648

Technical Drawings

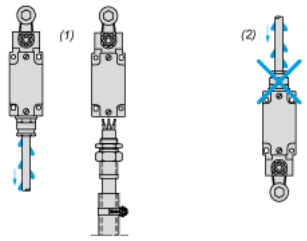
Dimensions



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

Mounting with Cable Entry

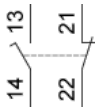
Position of Cable Gland



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

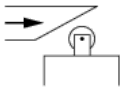
Wiring Diagram

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

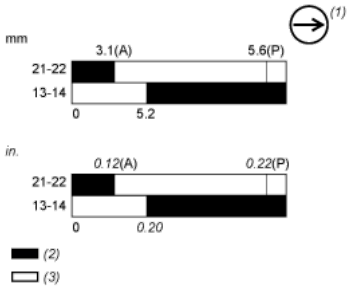


Characteristics of Actuation

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