

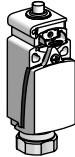





# Limit switches

OsiSense XC Standard

Compact design, metal, with reset, type XCDR


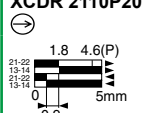

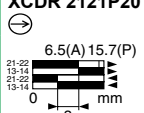
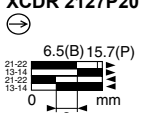
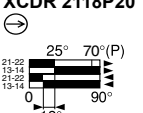
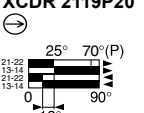
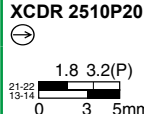

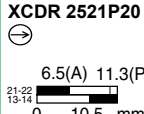

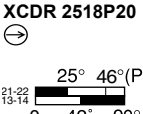
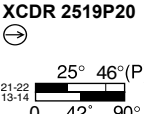

Complete switches with 1 cable entry

1

Type of head	Plunger (fixing by the body)				Rotary (fixing by the body)	
						

Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	Thermoplastic roller lever plunger, vertical actuation in 1 direction	Thermoplastic roller lever	Steel roller lever
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### References of complete switches with 1 ISO M20 x 1.5 cable entry




 <p>2-pole NC + NO snap action (XE2S P2151)</p>	 <p><b>XCDR 2110P20</b></p>	 <p><b>XCDR 2102P20</b></p>	 <p><b>XCDR 2121P20</b></p>	 <p><b>XCDR 2127P20</b></p>	 <p><b>XCDR 2118P20</b></p>	 <p><b>XCDR 2119P20</b></p>
	 <p><b>XCDR 2510P20</b></p>	 <p><b>XCDR 2502P20</b></p>	 <p><b>XCDR 2521P20</b></p>	 <p><b>XCDR 2527P20</b></p>	 <p><b>XCDR 2518P20</b></p>	 <p><b>XCDR 2519P20</b></p>
 <p>2-pole NC + NO break before make, slow break (XE2N P2151)</p>						
Weight (kg)	0.215	0.220	0.225	0.225	0.255	0.255

### References of complete switches with 1 Pg 13.5 cable entry





For complete switches with 1 Pg 13.5 cable entry replace P20 by **G13**.  
Example: XCDR 2110P20 becomes **XCDR 2110G13**.

### References of complete switches with 1 entry for 1/2" NPT conduit

For complete switches with 1 entry for 1/2" NPT conduit replace P20 by **N12**.  
Example: XCDR 2110P20 becomes **XCDR 2110N12**.

<b>Contact operation</b>  closed  open	(A) (B) = cam displacement (P) = positive opening point	 NC contact with positive opening operation
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### Characteristics

Switch actuation	On end	By 30° cam		
Type of actuation				
Maximum actuation speed	0.5 m/s		1 m/s	1.5 m/s
Minimum force or torque	For tripping For positive opening	15 N 45 N	12 N 36 N	6 N 18 N
Cable entry	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm 1 entry tapped Pg 13.5 for cable gland, clamping capacity 9 to 12 mm 1 entry tapped for 1/2" NPT (USAS B2-1) conduit			

## Limit switches

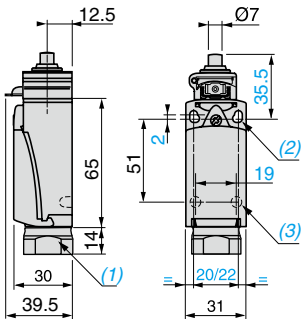
OsiSense XC Standard

Compact design, metal, with reset, type XCDR

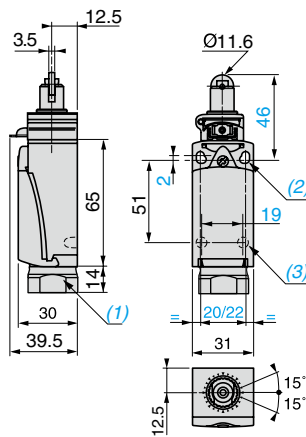
Complete switches with 1 cable entry

### Dimensions

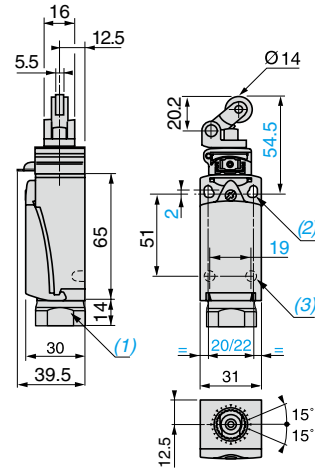
**XCDR 2•10•••**



**XCDR 2•02•••**



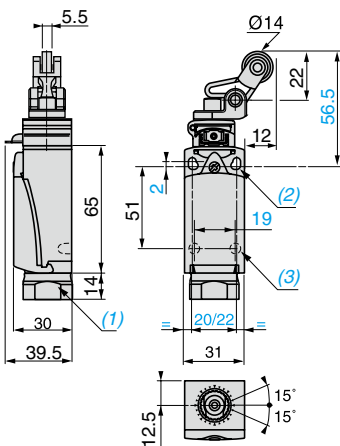
**XCDR 2•21•••**



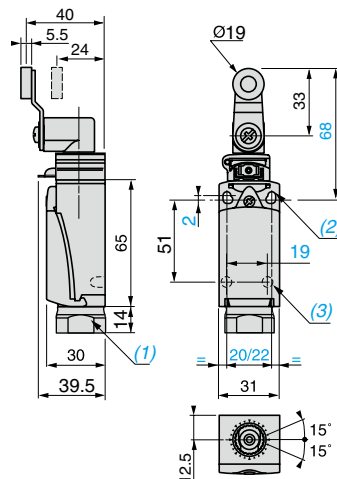
- (1) Tapped entry for ISO M20 x 1.5 or Pg 13.5 cable gland or tapped 1/2" NPT.
- (2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
- (3) 2 x Ø 3 holes for support studs, depth 4 mm.

### Dimensions

**XCDR 2•27•••**



**XCDR 2•18•••, XCDR 2•19•••**



- (1) Tapped entry for ISO M20 x 1.5 or Pg 13.5 cable gland or tapped 1/2" NPT.
- (2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
- (3) 2 x Ø 3 holes for support studs, depth 4 mm.

# Limit switches

OsiSense XC Standard

Compact design, plastic, with reset,  
types XCP R and XCT R

Compact design, metal, with reset, type XCD R

1

■ XCP R, XCD R  
with 1 cable entry

□ With head for linear movement (plunger). Fixing by the body

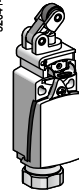
XCD R

XCP R

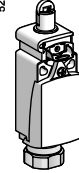
520412



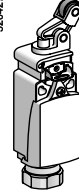
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520425



520427



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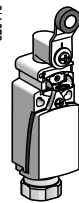
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□ With head for rotary movement (lever) or multi-directional. Fixing by the body

XCD R

XCP R

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520428



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■ XCT R  
with 2 cable entries  
Tripping/resetting points and fixing centres  
conform to CENELEC 50047

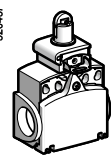
□ With head for linear movement (plunger). Fixing by the body

XCT R

520436



520437



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□ With head for rotary movement (lever) or multi-directional. Fixing by the body

XCT R

520438



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# Limit switches

## OsiSense XC Standard

Compact design, plastic, with reset,

types XCP R and XCT R

Compact design, metal, with reset, type XCD R

Environment characteristics		
<b>Conformity to standards</b>	Products	EN/IEC 60947-5-1, UL 508, CSA C22-2 n° 14
	Machine assemblies	EN/IEC 60204-1
<b>Product certifications</b>		UL, CSA
<b>Protective treatment</b>	Standard version	"TC"
<b>Ambient air temperature</b>	For operation	- 25...+ 70 °C
	For storage	- 40...+ 70 °C
<b>Vibration resistance</b>	Conforming to IEC 60068-2-6	25 gn (10...500 Hz)
<b>Shock resistance</b>	Conforming to IEC 60068-2-27	50 gn (11 ms)
<b>Electric shock protection</b>		Class II conforming to IEC 61140 and NF C 20-030 for <b>XCP R</b> and <b>XCT R</b>
		Class I conforming to IEC 61140 and NF C 20-030 for <b>XCD R</b>
<b>Degree of protection</b>		<b>IP 66 and IP 67 conforming to IEC 60529; IK 04 conforming to EN 50102</b>
<b>Repeat accuracy</b>		0.1 mm on the tripping points, with 1 million operating cycles for head with end plunger
<b>Cable entry</b>	Depending on model	Either: tapped entry for n° 13 cable gland, tapped ISO M20 x 1.5 or tapped 1/2" NPT
<b>Materials</b>		<b>XCD R</b> : zamak bodies and heads, <b>XCP R</b> and <b>XCT R</b> : plastic bodies, zamak heads
Contact block characteristics		
<b>Rated operational characteristics</b>		~ AC-15; A300 (Ue = 240 V, Ie = 3 A); Ithe = 10 A --- DC-13; Q300 (Ue = 250 V, Ie = 0.27 A), conforming to EN/IEC 60947-1 Appendix A
<b>Rated insulation voltage</b>		Ui = 500 V degree of pollution 3 conforming to IEN/IEC 60947-1 Ui = 300 V conforming to UL 508, CSA C22-2 n° 14
<b>Rated impulse withstand voltage</b>		U imp = 6 kV conforming to EN/IEC 60947-1, IEC 60664
<b>Positive operation</b> (depending on model)		NC contacts with positive opening operation conforming to EN/IEC 60947-5-1 Appendix K
<b>Resistance across terminals</b>		≤ 25 mΩ conforming to IEC 60255-7 category 3
<b>Short-circuit protection</b>		10 A cartridge fuse type gG (gl)
<b>Connection</b> (screw clamp terminals)	XE2S P2151	Clamping capacity, min: 1 x 0.34 mm <sup>2</sup> , max: 2 x 1.5 mm <sup>2</sup>
	XE2N P2151	Clamping capacity, min: 1 x 0.5 mm <sup>2</sup> , max: 2 x 2.5 mm <sup>2</sup>
<b>Minimum actuation speed</b> (for head with end plunger)		<b>XE2S P2151</b> : 0.01 m/minute
		<b>XE2N P2151</b> : 6 m/minute