

Compact format, CENELEC EN50047		Compact format, with reset	
Metal, 1 cable entry	Plastic, 1 cable entry	Plastic, 2 cable entries	Metal, 1 cable entry



Metal	Plastic, double insulated		Metal
Head, body and connection modularity	-		
CENELEC EN 50047 UL, CSA, CCC, GOST	UL, CSA, GOST		
31 x 65 x 30	31 x 65 x 30	58 x 51 x 30	31 x 65 x 30
Linear movement (plunger) Rotary movement (lever) Rotary movement, multidirectional Same heads for ranges XCMD, XCKD, XCKP and XCKT	Linear movement (plunger) Rotary movement (lever)		
p	p	p	p
p	p	p	p
-	-	-	-
-	-	-	-
p	-	-	-
p	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
IP 66, IP 67, IK 06	IP 66, IP 67, IK 04 and IK06 (for XCDR)		
-25°C... +70°C			
1 entry for ISO M16 or M20, Pg 11, Pg 13.5 cable gland or 1/2" NPT, PF 1/2	1 entry for ISO M20 or Pg 13.5 cable gland or 1/2" NPT	2 entries for ISO M16 or Pg 11 cable gland or 1/2" NPT (using adaptor)	1 entry for ISO M20 or Pg 13.5 cable gland or 1/2" NPT
-			
M12	-		
XCKD	XCPR	XCTR	XCDR
1/38 and 1/42	1/52	1/58	1/56

Limit switches

OsiSense XC Standard

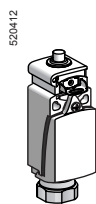
Compact design, plastic, with reset,
types XCPR and XCTR

Compact design, metal, with reset, type XCDR

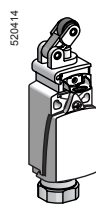
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■ **XCPR, XCDR**
with 1 cable entry

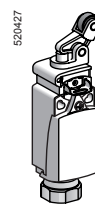
□ With head for linear movement (plunger). Fixing by the body
XCDR **XCPR**



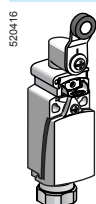
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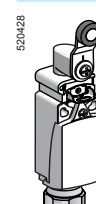
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□ With head for rotary movement (lever) or multi-directional. Fixing by the body
XCDR **XCPR**



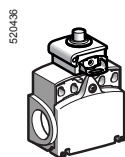
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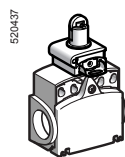
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■ **XCTR**
with 2 cable entries
Tripping/resetting points and fixing centres
conform to CENELEC 50047

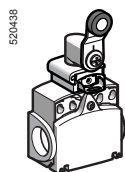
□ With head for linear movement (plunger). Fixing by the body
XCTR



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



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Limit switches

OsiSense XC Standard

Compact design, plastic, with reset,
types XCPR and XCTR

Compact design, metal, with reset, type XCDR

Environment characteristics

Conformity to standards	Products	EN/IEC 60947-5-1, UL 508, CSA C22-2 n° 14
	Machine assemblies	EN/IEC 60204-1
Product certifications		UL, CSA
Protective treatment	Standard version	"TC"
Ambient air temperature	For operation	- 25...+ 70 °C
	For storage	- 40...+ 70 °C
Vibration resistance	Conforming to IEC 60068-2-6	25 gn (10...500 Hz)
Shock resistance	Conforming to IEC 60068-2-27	50 gn (11 ms)
Electric shock protection		Class II conforming to IEC 61140 and NF C 20-030 for XCPR and XCTR
		Class I conforming to IEC 61140 and NF C 20-030 for XCDR
Degree of protection		IP 66 and IP 67 conforming to IEC 60529; IK 04 conforming to EN 50102
Repeat accuracy		0.1 mm on the tripping points, with 1 million operating cycles for head with end plunger
Cable entry	Depending on model	Either: tapped entry for n° 13 cable gland, tapped ISO M20 x 1.5 or tapped 1/2" NPT
Materials		XCDR : Zamak bodies and heads, XCPR and XCTR : plastic bodies, Zamak heads

Contact block characteristics

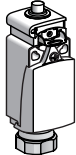
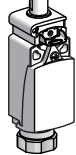
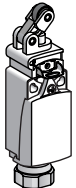
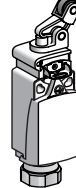
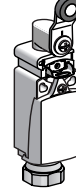
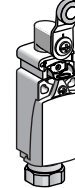
Rated operational characteristics		~ AC-15; A300 (Ue = 240 V, Ie = 3 A); Ithe = 10 A ∴ DC-13; Q300 (Ue = 250 V, Ie = 0.27 A), conforming to EN/IEC 60947-5-1 Appendix A
Rated insulation voltage		Ui = 500 V degree of pollution 3 conforming to IEN/IEC 60947-1 Ui = 300 V conforming to UL 508, CSA C22-2 n° 14
Rated impulse withstand voltage		U imp = 6 kV conforming to EN/IEC 60947-1, IEC 60664
Positive operation (depending on model)		NC contacts with positive opening operation conforming to EN/IEC 60947-5-1 Appendix K
Resistance across terminals		≤ 25 mΩ conforming to IEC 60255-7 category 3
Short-circuit protection		10 A cartridge fuse type gG (gl)
Connection (screw clamp terminals)	XE2SP2151	Clamping capacity, min: 1 x 0.34 mm ² , max: 2 x 1.5 mm ²
	XE2NP2151	Clamping capacity, min: 1 x 0.5 mm ² , max: 2 x 2.5 mm ²
Minimum actuation speed (for head with end plunger)		XE2SP2151 : 0.01 m/minute
		XE2NP2151 : 6 m/minute


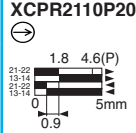
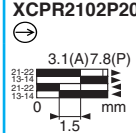
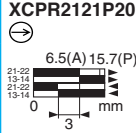
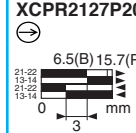
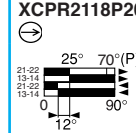
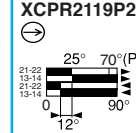

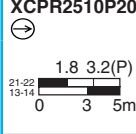
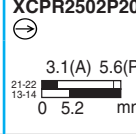
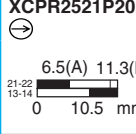
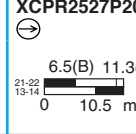
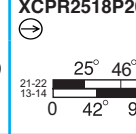
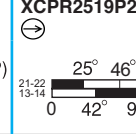

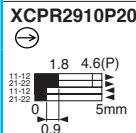
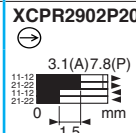
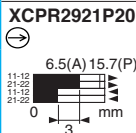
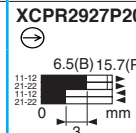
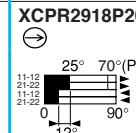
Limit switches

OsiSense XC Standard

Compact design, plastic, with reset, type XCPR

Complete switches with 1 cable entry

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

References of complete switches with 1 ISO M20 x 1.5 cable entry						
 <p>2-pole NC + NO snap action (XE2SP2151)</p>	<p>XCPR2110P20</p> 	<p>XCPR2102P20</p> 	<p>XCPR2121P20</p> 	<p>XCPR2127P20</p> 	<p>XCPR2118P20</p> 	<p>XCPR2119P20</p> 
 <p>2-pole NC + NO break before make, slow break (XE2NP2151)</p>	<p>XCPR2510P20</p> 	<p>XCPR2502P20</p> 	<p>XCPR2521P20</p> 	<p>XCPR2527P20</p> 	<p>XCPR2518P20</p> 	<p>XCPR2519P20</p> 
 <p>2-pole NC + NC snap action (XE2SP2141)</p>	<p>XCPR2910P20</p> 	<p>XCPR2902P20</p> 	<p>XCPR2921P20</p> 	<p>XCPR2927P20</p> 	<p>XCPR2918P20</p> 	—
Weight (kg)	0.115	0.115	0.125	0.120	0.155	—

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: XCPR2110P20 becomes **XCPR2110G13**.






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: XCPR2110P20 becomes **XCPR2110N12**.

Contact operation	 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	15 N	12 N	6 N	0.1 N.m
	For positive opening	45 N	36 N	18 N	0.25 N.m
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				

Other versions Complete switches with cable entries other than those listed above. please consult our Customer Care Centre.