

Limit switches

OsiSense XC Basic

Miniature format	Compact format EN 50047		Compact format, with reset knob	
Plastic, pre-cabled	Plastic, 1 cable entry	Plastic, 2 cable entries	Plastic, 1 cable entry	Plastic, 2 cable entries



Plastic, double insulated	Plastic, double insulated		Plastic, double insulated	
-				
UL, CSA, CCC, GOST	CENELEC EN 50047 UL, CSA, CCC, GOST		UL, CSA, CCC, GOST	
30 x 50 x 16	31 x 65 x 30	59 x 51 x 30	31 x 65 x 30	59 x 51 x 30
Linear movement (plunger) Rotary movement (lever) Rotary movement, multidirectional				
•	•	•	•	•
-	•	•	•	•
-	-	-	-	-
-	-	•	-	•
-	•	-	•	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
IP 65, IK 04				
-25°C... +70°C				
-	1 entry for ISO M20 or Pg 11 cable gland Other cable entries (3): ISO M16 x 1.5 and PF 1/2 (G1/2)	2 entries for ISO M16 or Pg 11 cable gland or 1/2" NPT (using adaptor)	1 entry for ISO M20 or Pg 11 cable gland Other cable entries (3): ISO M16 x 1.5 and PF 1/2 (G1/2)	2 entries for ISO M16 or Pg 11 cable gland or 1/2" NPT (using adaptor)
Ø 7.5 PvR, CEI, halogen free, depending on model	-			
XCMN	XCKN	XCNT	XCNR	XCNTR
1/28	1/62	1/64	1/70	1/71

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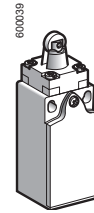
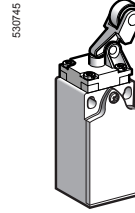
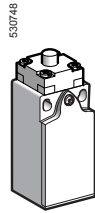
Compact design, plastic, types XCKN and XCNT

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■ XCKN

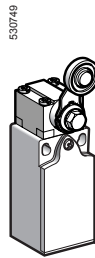
with 1 cable entry
Conforming to CENELEC EN 50047

□ With head for linear movement (plunger)



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□ With head for rotary movement (lever) or multi-directional

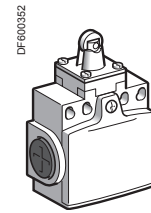
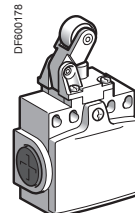
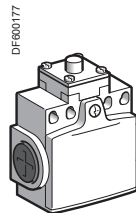


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■ XCNT

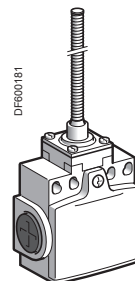
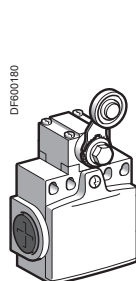
with 2 cable entries
Conforming to CENELEC EN 50047

□ With head for linear movement (plunger)



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□ With head for rotary movement (lever) or multi-directional



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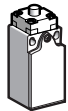
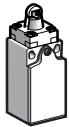



Environment characteristics		
Conformity to standards	Products	IEC 60947-5-1, EN 60947-5-1, UL 508, CSA C22-2 n° 14
	Machine assemblies	IEC 60204-1, EN 60204-1
Product certifications		UL, CSA, CCC
Protective treatment	Version	Standard: "TC"
Ambient air temperature	For operation	- 25...+ 70°C
	For storage	- 40...+ 70°C
Vibration resistance	Conforming to IEC 60068-2-6	25 gn (10...500 Hz) except XCKN●●08: 10 gn, XCKN●●39 and XCKN●●49: 15 gn
Shock resistance	Conforming to IEC 60068-2-27	50 gn (11 ms) except XCKN2●49●● and XCKN●●39: 15 gn, XCKN2●08●●: 20 gn and XCKN2●45●●: 35 gn
Electric shock protection		Class II conforming to IEC 61140 and NF C 20030
Degree of protection		IP 65 conforming to IEC 60529; IK 04 conforming to EN 50102
Cable entry		Depending on model: tapped entry for ISO M20 x 1.5 or Pg 11 cable gland, ISO M 16 x 1.5 cable gland or PF 1/2 (G 1/2).
Materials	Bodies	Plastic
	Heads	Plastic
Contact block characteristics		
Rated operational characteristics		~ AC-15; A300 (U _e = 240 V, I _e = 3 A); I _{the} = 10 A ⎓ DC-13; R300 (U _e = 250 V, I _e = 0.1 A), conforming to IEC 60947-5-1 Appendix A, EN 60947-5-1
Rated insulation voltage	2-pole contact	U _i = 500 V degree of pollution 3 conforming to IEC 60947-1 U _i = 300 V conforming to UL 508, CSA C22-2 n° 14
Rated impulse withstand voltage	2-pole contact	U _{imp} = 6 kV conforming to IEC 60947-1, IEC 60664
Positive operation		NC contacts with positive opening operation conforming to IEC 60947-5-1 Appendix K, EN 60947-5-1
Short-circuit protection		10 A cartridge fuse type gG (gl)
Connection	Screw clamp terminals	Clamping capacity, min: 1 x 0.34 mm ² , max: 2 x 1.5 mm ²

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Compact design, plastic, type XCKN

Complete switches with 1 cable entry

Type of head	Plunger (fixing by the body)				
					
Type of operator	Metal end plunger	Plastic roller plunger for lateral cam approach	Plastic roller plunger for traverse cam approach	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	Thermoplastic roller lever plunger, vertical actuation in 1 direction

Sold and packed in lots of

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
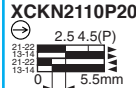
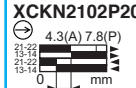
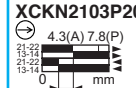
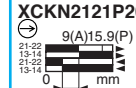
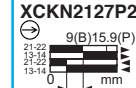

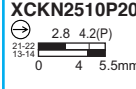
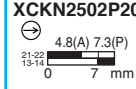
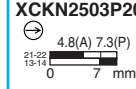
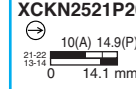
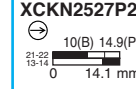

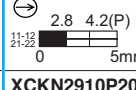
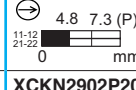
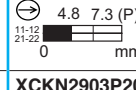
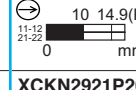
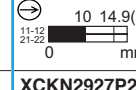

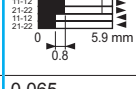
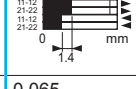

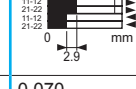
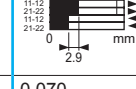



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



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References of complete switches with 1 ISO M20 x 1.5 cable entry

	2-pole NC + NO snap action	 XCKN2110P20 2.5 4.5(P) 5.5mm	 XCKN2102P20 4.3(A) 7.8(P) mm	 XCKN2103P20 4.3(A) 7.8(P) mm	 XCKN2121P20 9(A) 15.9(P) 5.2 mm	 XCKN2127P20 9(B) 15.9(P) 5.2 mm
	2-pole N/C + N/O break before make, slow break	 XCKN2510P20 2.8 4.2(P) 5.5mm	 XCKN2502P20 4.8(A) 7.3(P) 7 mm	 XCKN2503P20 4.8(A) 7.3(P) 7 mm	 XCKN2521P20 10(A) 14.9(P) 14.1 mm	 XCKN2527P20 10(B) 14.9(P) 14.1 mm
	2-pole NC + NC simultaneous, slow break	 XCKN2710P20 2.8 4.2(P) 5mm	 XCKN2702P20 4.8 7.3 (P) mm	 XCKN2703P20 4.8 7.3 (P) mm	 XCKN2721P20 10 14.9(P) mm	 XCKN2727P20 10 14.9(P) mm
	2-pole NC + NC snap action	 XCKN2910P20 2.2 5.1(P) 5.9mm	 XCKN2902P20 3.9 (A) 8.9(P) 1.4 mm	 XCKN2903P20 3.9 (A) 8.9(P) 1.4 mm	 XCKN2921P20 8 (A) 18 (P) 2.9 mm	 XCKN2927P20 8 (B) 18 (P) 2.9 mm
Weight (kg)	0.065	0.065	0.065	0.070	0.070	0.070
Contact operation	 closed  open	(A) (B) = cam displacement (P) = positive opening point		 NC contact with positive opening operation		

Characteristics

Switch actuation	On end	By 30° cam			
Type of actuation					
Maximum actuation speed	0.5 m/s	0.3 m/s	1 m/s		
Mechanical durability (in millions of operating cycles)	10				
Minimum force or torque	For tripping	15 N	12 N	6 N	
	For positive opening	30 N	20 N	10 N	
Cable entry	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm				

References of complete switches with 1 Pg 11 cable entry

For complete switches with 1 Pg 11 cable entry replace P20 by G11.

Example: XCKN2110P20 becomes XCKN2110G11.

Other cable entries

For complete switches with ISO M16 x 1.5 or PF 1/2 (G 1/2) cable entry, please consult our Customer Care Centre.

Other contacts

For complete switches with 2-pole contacts:
NO + NC make before break, slow break,
NO + NO simultaneous, slow break, please consult our Customer Care Centre.

For complete switches with 3-pole contacts:
NC + NO + NO snap action,
NC + NC + NO snap action,
NC + NC + NO break before make, slow break,
NC + NO + NO break before make, slow break, please consult our Customer Care Centre.