

Environment characteristics		
<b>Conformity to standards</b>	Products	IEC 60947-5-1, EN 60947-5-1, UL 508, CSA C22-2 n° 14, EAC
	Machine assemblies	IEC 60204-1, EN 60204-1
<b>Product certifications</b>		UL, CSA, CCC
<b>Protective treatment</b>	Version	Standard: "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) except XCKN●●08: 10 gn, XCKN●●39 and XCKN●●49: 15 gn
<b>Shock resistance</b>	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
<b>Electric shock protection</b>		Class II conforming to IEC 61140 and NF C 20030
<b>Degree of protection</b>		<b>IP 65 conforming to IEC 60529; IK 04 conforming to IEC 62262</b>
<b>Cable entry</b>		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).
<b>Materials</b>	Bodies	Plastic
	Heads	Plastic
Contact block characteristics		
<b>Rated operational characteristics</b>		~ AC-15; A300 (U <sub>e</sub> = 240 V, I <sub>e</sub> = 3 A); I <sub>the</sub> = 10 A ≡ DC-13; R300 (U <sub>e</sub> = 250 V, I <sub>e</sub> = 0.1 A), conforming to IEC 60947-5-1 Appendix A, EN 60947-5-1
<b>Rated insulation voltage</b>	2-pole contact	U <sub>i</sub> = 500 V degree of pollution 3 conforming to IEC 60947-1 U <sub>i</sub> = 300 V conforming to UL 508, CSA C22-2 n° 14
<b>Rated impulse withstand voltage</b>	2-pole contact	U <sub>imp</sub> = 6 kV conforming to IEC 60947-1, IEC 60664
<b>Positive operation</b>		NC contacts with positive opening operation conforming to IEC 60947-5-1 Appendix K, EN 60947-5-1
<b>Short-circuit protection</b>		10 A cartridge fuse type gG (gl)
<b>Connection</b>	Screw clamp terminals	Clamping capacity, min: 1 x 0.34 mm <sup>2</sup> , max: 2 x 1.5 mm <sup>2</sup>

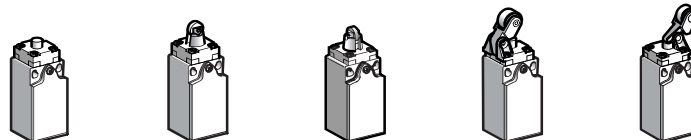
# Limit switches

XC Basic range

Compact design, plastic, XCKN

Complete switches with 1 cable entry

Type of head	Plunger (fixing by the body)				
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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	20	20	20	20	20

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

<p>2-pole NC + NO snap action</p>	<p>2-pole NC + NO break before make, slow break</p>	<p>2-pole NC + NC simultaneous, slow break</p>	<p>2-pole NC + NC snap action</p>	<p><b>XCKN2110P20</b></p>	<p><b>XCKN2102P20</b></p>	<p><b>XCKN2103P20</b></p>	<p><b>XCKN2121P20</b></p>	<p><b>XCKN2127P20</b></p>
	<p><b>XCKN2510P20</b></p>	<p><b>XCKN2502P20</b></p>	<p><b>XCKN2503P20</b></p>	<p><b>XCKN2521P20</b></p>	<p><b>XCKN2527P20</b></p>			
	<p><b>XCKN2710P20</b></p>	<p><b>XCKN2702P20</b></p>	<p><b>XCKN2703P20</b></p>	<p><b>XCKN2721P20</b></p>	<p><b>XCKN2727P20</b></p>			
	<p><b>XCKN2910P20</b></p>	<p><b>XCKN2902P20</b></p>	<p><b>XCKN2903P20</b></p>	<p><b>XCKN2921P20</b></p>	<p><b>XCKN2927P20</b></p>			
Weight (kg)	0.065	0.065	0.065	0.070	0.070			
Contact operation		(A) (B) = cam displacement (P) = positive opening point						

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
	For positive opening	30 N	20 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.

# Limit switches

XC Basic range

Compact design, plastic, XCKN

Complete switches with 1 cable entry

Type of head	Rotary (fixing by the body)				Multi-directional	
Type of operator	Thermoplastic roller lever	Variable length thermoplastic roller lever	Thermoplastic roller lever, Ø 50 mm	Variable length thermoplastic roller lever, Ø 50 mm	Spring rod	"Cat's whisker"
Sold and packed in lots of	20	20	20	20	20	20

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

	<b>2-pole NC + NO snap action</b>	<b>XCKN2118P20</b> 	<b>XCKN2145P20</b> 	<b>XCKN2139P20</b> 	<b>XCKN2149P20</b> 	<b>XCKN2108P20</b> 	<b>XCKN2106P20</b> 
	<b>2-pole NC + NO break before make, slow break</b>	<b>XCKN2518P20</b> 	<b>XCKN2545P20</b> 	<b>XCKN2539P20</b> 	<b>XCKN2549P20</b> 	<b>XCKN2508P20</b> 	<b>XCKN2506P20</b> 
	<b>2-pole NC + NC simultaneous, slow break</b>	<b>XCKN2718P20</b> 	<b>XCKN2745P20</b> 	<b>XCKN2739P20</b> 	<b>XCKN2749P20</b> 	<b>XCKN2708P20</b> 	<b>XCKN2706P20</b> 
	<b>2-pole NC + NC snap action</b>	<b>XCKN2918P20</b> 	<b>XCKN2945P20</b> 	<b>XCKN2939P20</b> 	<b>XCKN2949P20</b> 	<b>XCKN2908P20</b> 	<b>XCKN2906P20</b> 
Weight (kg)		0.085	0.090	0.110	0.115	0.085	0.075
Contact operation				(A) (B) = cam displacement (P) = positive opening point			

## Characteristics

Switch actuation	By 30° cam		By any moving part
Type of actuation			
Maximum actuation speed	1.5 m/s		1 m/s (any direction)
Mechanical durability	10 million operating cycles		5 million operating cycles
Minimum force or torque	For tripping	0.1 N.m	0.13 N.m
	For positive opening	0.15 N.m	–
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: XCKN2118P20 becomes **XCKN2118G11**.

## 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.

# Limit switches

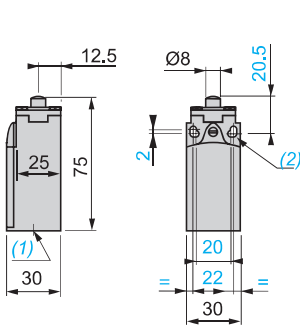
## XC Basic range

Compact design, plastic, XCKN

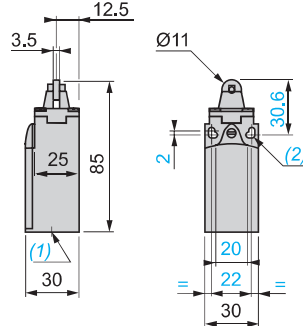
Complete switches with 1 cable entry

### Dimensions

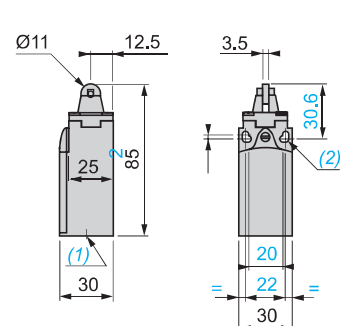
XCKN2●10P20



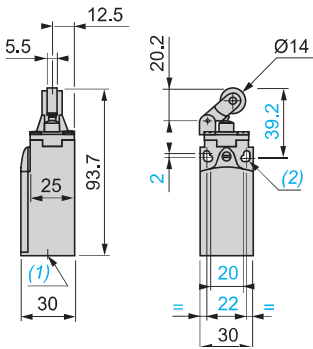
XCKN2●02P20



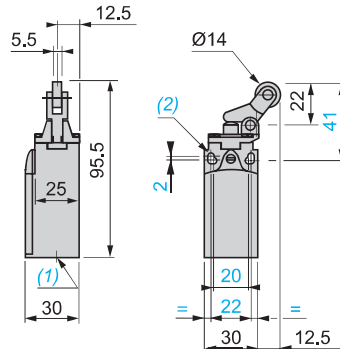
XCKN2●03P20



XCKN2●21P20

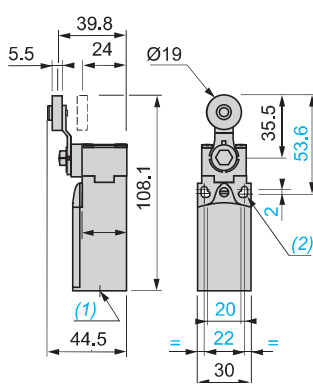


XCKN2●27P20

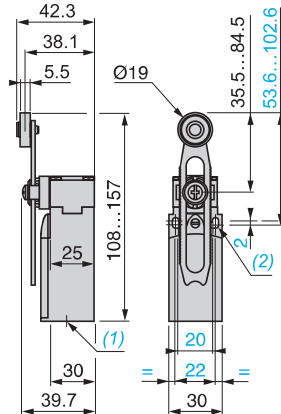


(1) 1 tapped entry for ISOM20 x 1.5 or Pg 11 cable gland.  
 (2) Ø: 2 elongated holes Ø 4.3 x 6.3 on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.

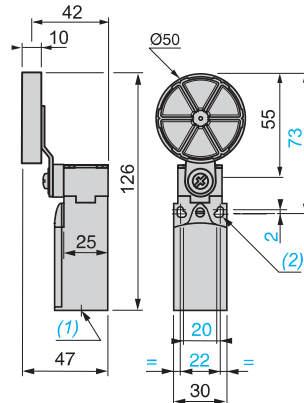
XCKN2●18P20



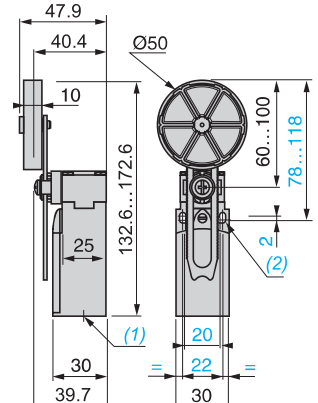
XCKN2●45P20



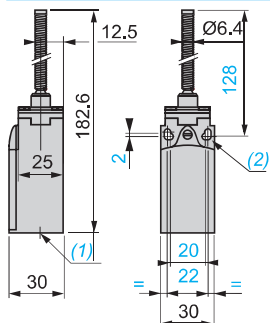
XCKN2●39P20



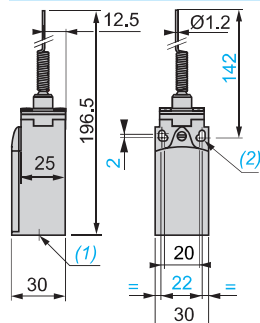
XCKN2●49P20



XCKN2●08P20



XCKN2●06P20



(1) 1 tapped entry for ISOM20 x 1.5 or Pg 11 cable gland.  
 (2) Ø: 2 elongated holes Ø 4.3 x 6.3 on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.