

Components for safety applications

Limit switches

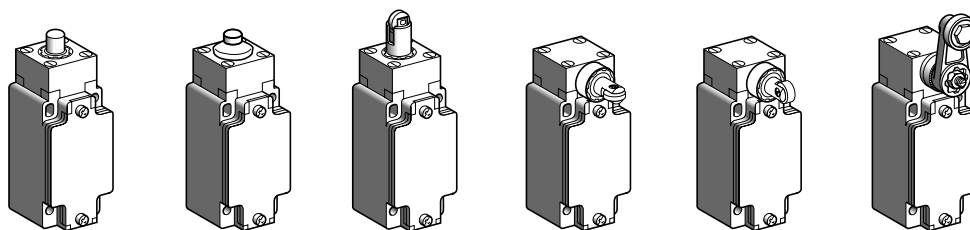
Metal, painted red, turret head, type XCL-J

Cable entry tapped M20 x 1.5

References, characteristics

Type of operating head	Plunger	Rotary
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Type of operator	Steel end plunger	Steel end plunger with rubber boot	Steel roller plunger	Side plunger with horizontal roller	Side plunger with vertical roller	Thermoplastic roller lever (1)
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(1) Adjustable throughout 360° in 5° steps or in 45° steps by reversing the lever mounting or clamp. Switch supplied for actuation from left AND right.

References (☉ N/C contact with positive opening operation)

2-pole 1 N/C + 1 N/O break before make, slow break (XEN-P2151)		XCL-J561H29 ☉	XCL-J5619H29 ☉	XCL-J567H29 ☉	XCL-J564H29 ☉	XCL-J565H29 ☉	XCL-J50511H29 ☉
2-pole 2 N/C simultaneous, slow break (XEN-P2141)		XCL-J761H29 ☉	XCL-J7619H29 ☉	XCL-J767H29 ☉	XCL-J764H29 ☉	XCL-J765H29 ☉	XCL-J70511H29 ☉
Weight (kg)		0.430	0.430	0.445	0.495	0.495	0.480

Characteristics

Conforming to standards	Products	IEC 947-5-1, IEC 337-1, EN 60 947-5-1, NF C63-140, VDE 0660-200					
	Installation	IEC 204-1, EN 60 204-1, NF C 79-130					
Protective treatment	Standard version : "TH"						
Ambient air temperature	Operation : - 25...+ 70 °C. Storage : - 40...+ 70 °C						
Vibration resistance	25 g (10...500 Hz) conforming to IEC 68-2-6						
Shock resistance	50 g conforming to IEC 68-2-27						
Electric shock protection	Class I conforming to IEC 536 and NF C20-030						
Degree of protection	IP 66 conforming to IEC 529 ; IP 667 conforming to NF C 20-010						
Mechanical durability (op. cycles)	30 million		25 million		30 million		
	Minimum force for tripping	18 N	14 N			0.25 N.m	
or torque for positive opening	35 N	28 N			0.35 N.m		
Maximum actuation speed	0.5 m/s		1 m/s		0.6 m/s		
	Switch actuation	On end	By 30° cam				
Repeat accuracy	0.01 mm on the tripping points						
Rated operational characteristics	\sim AC15 ; A 300 or $U_e = 240$ V, $I_e = 3$ A --- DC13 ; Q 300 or $U_e = 250$ V, $I_e = 0.27$ A conforming to IEC 947-5-1 Appendix A, EN 60 947-5-1						
Rated insulation voltage	$U_i = 500$ V degree of pollution 3 conforming to IEC 947-1, group C conforming to NF C 20-040 and VDE 0110						
Rated impulse withstand voltage	$U_{imp} = 6$ kV conforming to IEC 947-1, IEC 664						
Positive operation	N/C contact with positive opening operation conforming to IEC 947-5-1 Section 3, EN 60 947-5-1						
Resistance across terminals	≤ 25 m Ω conforming to NF C 93-050 method A or IEC 255-7 category 3						
Short-circuit protection	10 A cartridge fuse type gG (gl) conforming to IEC 947-5-1, VDE 0660-200						
Cable entry	1 entry, tapped 20 mm ISO						
Cabling	Screw and captive cable clamp terminals. Capacity : min. 1 x 0.34 mm ² , max. 2 x 2.5 mm ² depending on contact.						

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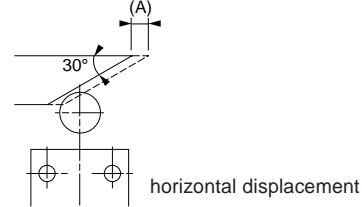
Setting-up, dimensions

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Setting-up

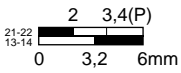
Cam displacement

XCL-J67H29

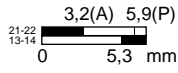


Function diagrams

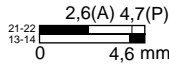
XCL-J561H29, J5619H29



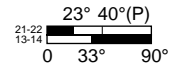
XCL-J567H29



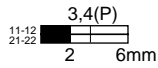
XCL-J564H29, J565H29



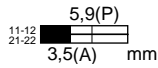
XCL-J50511H29



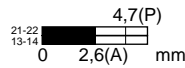
XCL-J761H29, J7619H29



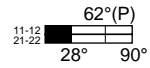
XCL-J767H29



XCL-J764H29, J765H29



XCL-J70511H29

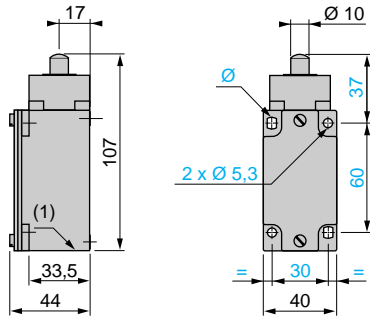


Contact operation : contact closed, contact open

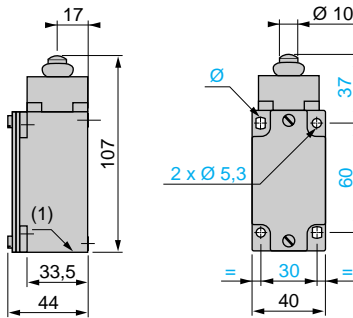
(A) = cam displacement (P) = positive opening point

Dimensions

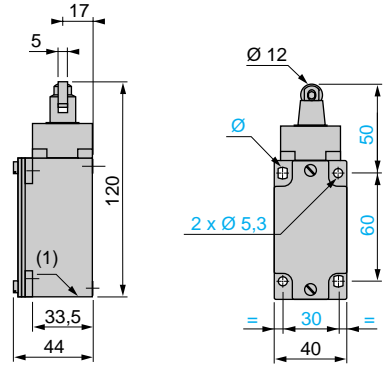
XCL-J561H29, J761H29



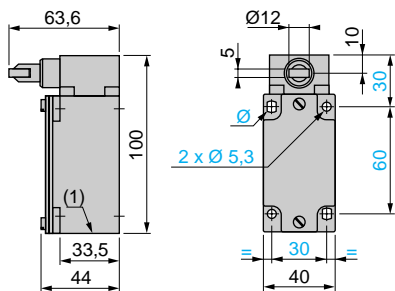
XCL-J5619H29, J7619H29



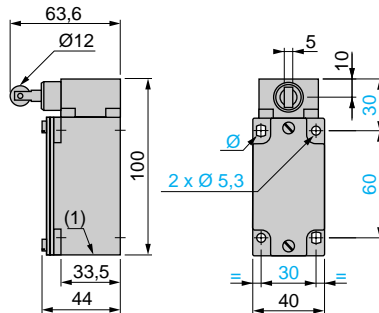
XCL-J567H29, J767H29



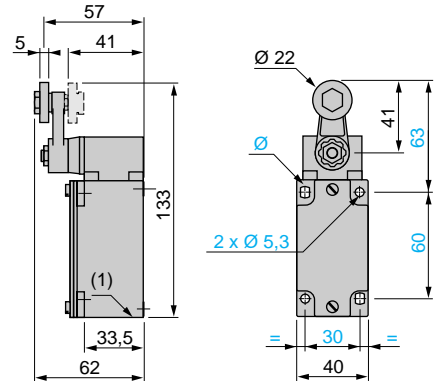
XCL-J564H29, J764H29



XCL-J565H29, J765H29



XCL-J50511H29, J70511H29



(1) 1 cable entry, tapped 20 mm ISO

Ø : 2 elongated holes Ø 5.3 x 7.3