

Limit switches

Osiswitch® Universal, Osiconcept®

Compact design, plastic, type XCK P

Complete units with 1 ISO M16 x 1.5 cable entry

Type of head	Plunger (fixing by the body)					
	Form B (1)		Form C (1)		Form E (1)	
Type of operator	Metal end plunger	Metal end plunger with elastomer boot	Steel roller plunger	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	Thermoplastic roller lever plunger, vertical actuation in 1 direction	Thermoplastic roller lever plunger, horiz. or vert. actuation in 1 direction

References (2) (3)							
	2-pole N/C + N/O snap action (XE2S P2151)	XCK P2110P16 1.8 4,5(P) 5mm	XCK P2111P16 1.8 4,5(P) 5mm	XCK P2102P16 3,1(A)7,8(P) 1,5 mm	XCK P2121P16 6,5(A)15,7(P) 3 mm	XCK P2127P16 6,5(B)15,7(P) 3 mm	XCK P2128P16 9,8(A)22,5(P) 4,9 mm
	2-pole N/C + N/O break before make, slow break (XE2N P2151)	XCK P2510P16 1.8 3,2(P) 5mm	XCK P2511P16 1.8 3,2(P) 5mm	XCK P2502P16 3,1(A) 5,6(P) 5,2 mm	XCK P2521P16 6,5(A) 11,3(P) 10,5 mm	XCK P2527P16 6,5(B) 11,3(P) 10,5 mm	XCK P2528P16 9,8(A) 17,2(P) 16,1 mm
	2-pole N/C + N/C snap action (XE2S P2141)	ZCP 29 + ZCP EP16 + ZCE 10 1.8 4,5(P) 5mm	ZCP 29 + ZCP EP16 + ZCE 11 1.8 4,5(P) 5mm	ZCP 29 + ZCP EP16 + ZCE 02 3,1(A)7,8(P) 1,5 mm	ZCP 29 + ZCP EP16 + ZCE 21 6,5(A)15,7(P) 3 mm	ZCP 29 + ZCP EP16 + ZCE 27 6,5(B)15,7(P) 3 mm	ZCP 29 + ZCP EP16 + ZCE 28 9,8(A)22,5(P) 4,9 mm
	2-pole N/C + N/C simultaneous, slow break (XE2N P2141)	ZCP 27 + ZCP EP16 + ZCE 10 1.8 3,2(P) 5mm	ZCP 27 + ZCP EP16 + ZCE 11 1.8 3,2(P) 5mm	ZCP 27 + ZCP EP16 + ZCE 02 3,1 5,6(P) mm	ZCP 27 + ZCP EP16 + ZCE 21 6,6(A) 11,6(P) mm	ZCP 27 + ZCP EP16 + ZCE 27 6,6(B) 11,6(P) mm	ZCP 27 + ZCP EP16 + ZCE 28 5,3(A) mm
	3-pole N/C + N/C + N/O snap action (XE3S P2141)	ZCP 39 + ZCP EP16 + ZCE 10 1.8 4,5(P) 5mm	ZCP 39 + ZCP EP16 + ZCE 11 1.8 4,5(P) 5mm	ZCP 39 + ZCP EP16 + ZCE 02 3,1(A) 7,8(P) 1,5 mm	ZCP 39 + ZCP EP16 + ZCE 21 6,5(A) 15,7(P) 3 mm	ZCP 39 + ZCP EP16 + ZCE 27 6,5(B) 15,7(P) 3 mm	ZCP 39 + ZCP EP16 + ZCE 28 9,8(A) 22,5(P) 4,9 mm
	3-pole N/C + N/C + N/O break before make, slow break (XE3N P2141)	ZCP 37 + ZCP EP16 + ZCE 10 1.8 3,2(P) 5mm	ZCP 37 + ZCP EP16 + ZCE 11 1.8 3,2(P) 5mm	ZCP 37 + ZCP EP16 + ZCE 02 3,1(A) 5,6(P) 5,2 mm	ZCP 37 + ZCP EP16 + ZCE 21 6,5(A) 11,3(P) 10,5 mm	ZCP 37 + ZCP EP16 + ZCE 27 6,5(B) 11,3(P) 10,5 mm	ZCP 37 + ZCP EP16 + ZCE 28 9,8(A) 17,2(P) 16,1 mm
Weight (kg)		0.090	0.090	0.095	0.105	0.100	0.105
Contact operation		contact closed contact open		(A)(B) = cam displacement (P) = positive opening point	N/C contact with positive opening operation		

Characteristics						
Switch actuation	On end		By 30° cam			
Type of actuation						
Maximum actuation speed	0.5 m/s			1 m/s		
Mechanical durability (in millions of operating cycles)	15			10		15
Minimum force or torque	For tripping	15 N		12 N		6 N
	For positive opening	45 N		36 N		18 N
Cable entry (3)	1 entry tapped M16 x 1.5 mm for ISO cable gland, clamping capacity 4 to 8 mm					

(1) Form conforming to EN 50047, see page 31900/8.

(2) Switches with gold contacts or ring type connections: please consult our Regional Sales Office.

(3) For an entry tapped for a n° 11 cable gland, replace P16 in the reference by G11. Examples: XCK P2110P16 becomes XCK P2110G11, ZCP EP16 becomes ZCP EG11.

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Complete units with 1 ISO M16 x 1.5 cable entry

Type of head	Plunger (fixing by the head)		Rotary (fixing by the body)				Multi-directional
			Form A (1)				
Type of operator	M18 with metal end plunger	M18 with steel roller plunger	Thermoplastic roller lever	Variable length thermoplastic roller lever	Thermoplastic roller lever, Ø 50 mm	Variable length thermoplastic roller lever, Ø 50 mm	"Cat's whisker" (4)

References (2)							
	XCK P21H0P16 1.8 4,5(P) 0,9 5mm	XCK P21H2P16 3,1(A) 7,8(P) 1,5 mm	XCK P2118P16 25° 70°(P) 12° 90°	XCK P2145P16 25° 70°(P) 12° 90°	XCK P2139P16 25° 70°(P) 12° 90°	XCK P2149P16 25° 70°(P) 12° 90°	XCK P2106P16 20° 15°
	XCK P25H0P16 1.8 3,2(P) 0 3 5mm	XCK P25H2P16 3,1(A) 5,6(P) 0 5,2 mm	XCK P2518P16 25° 70°(P) 0 42° 90°	XCK P2545P16 25° 70°(P) 0 42° 90°	XCK P2539P16 25° 70°(P) 0 42° 90°	XCK P2549P16 25° 70°(P) 0 42° 90°	XCK P2506P16 20° 0 45°
	ZCP 29 + ZCP EP16 + ZCE H0 1.8 4,5(P) 0,9 5mm	ZCP 29 + ZCP EP16 + ZCE H2 3,1(A) 7,8(P) 1,5 mm	ZCP 29 + ZCP EP16 + ZCE 01 + ZCY 18 25° 70°(P) 12° 90°	ZCP 29 + ZCP EP16 + ZCE 01 + ZCY 45 25° 70°(P) 12° 90°	ZCP 29 + ZCP EP16 + ZCE 01 + ZCY 39 25° 70°(P) 12° 90°	ZCP 29 + ZCP EP16 + ZCE 01 + ZCY 49 25° 70°(P) 12° 90°	ZCP 29 + ZCP EP16 + ZCE 06 20° 15°
	ZCP 27 + ZCP EP16 + ZCE H0 1.8 3,2(P) 0 3 5mm	ZCP 27 + ZCP EP16 + ZCE H2 3,1 5,6(P) 0 5,2 mm	ZCP 27 + ZCP EP16 + ZCE 01 + ZCY 18 25° 70°(P) 0 42° 90°	ZCP 27 + ZCP EP16 + ZCE 01 + ZCY 45 25° 70°(P) 0 42° 90°	ZCP 27 + ZCP EP16 + ZCE 01 + ZCY 39 25° 70°(P) 0 42° 90°	ZCP 27 + ZCP EP16 + ZCE 01 + ZCY 49 25° 70°(P) 0 42° 90°	ZCP 27 + ZCP EP16 + ZCE 06 20° 0
	ZCP 39 + ZCP EP16 + ZCE H0 1.8 4,5(P) 0,9 5mm	ZCP 39 + ZCP EP16 + ZCE H2 3,1(A) 7,8(P) 1,5 mm	ZCP 39 + ZCP EP16 + ZCE 01 + ZCY 18 25° 70°(P) 12° 90°	ZCP 39 + ZCP EP16 + ZCE 01 + ZCY 45 25° 70°(P) 12° 90°	ZCP 39 + ZCP EP16 + ZCE 01 + ZCY 39 25° 70°(P) 12° 90°	ZCP 39 + ZCP EP16 + ZCE 01 + ZCY 49 25° 70°(P) 12° 90°	ZCP 39 + ZCP EP16 + ZCE 06 20° 15°
	ZCP 37 + ZCP EP16 + ZCE H0 1.8 3,2(P) 0 3 5mm	ZCP 37 + ZCP EP16 + ZCE H2 3,1(A) 5,6(P) 0 5,2 mm	ZCP 37 + ZCP EP16 + ZCE 01 + ZCY 18 25° 70°(P) 12° 90°	ZCP 37 + ZCP EP16 + ZCE 01 + ZCY 45 25° 70°(P) 12° 90°	ZCP 37 + ZCP EP16 + ZCE 01 + ZCY 39 25° 70°(P) 12° 90°	ZCP 37 + ZCP EP16 + ZCE 01 + ZCY 49 25° 70°(P) 12° 90°	ZCP 37 + ZCP EP16 + ZCE 06 20° 0 45°
Weight (kg)	0.130	0.130	0.135	0.145	0.145	0.155	0.085
Contact operation	contact closed contact open		(A) = cam displacement (P) = positive opening point		⊖ N/C contact with positive opening operation		

Characteristics			
Switch actuation	On end	By 30° cam	By any moving part
Type of actuation			
Maximum actuation speed	0.5 m/s	1.5 m/s	1 m/s (any direct.)
Mechanical durability	10 million operating cycles		5 million op. cycles
Minimum force or torque	For tripping 15 N For positive opening 45 N	10 N 36 N	0.1 N.m 0.25 N.m
Cable entry (3)	1 entry tapped M16 x 1.5 mm for ISO cable gland, clamping capacity 4 to 8 mm		

(1) Form conforming to EN 50047, see page 31900/8.
 (2) Switches with gold contacts or ring type connections: please consult our Regional Sales Office.
 (3) For an entry tapped for a n° 11 cable gland, replace P16 in the ref. by G11. Examples: XCK P21H0P16 becomes XCK P21H0G11, ZCP EP16 becomes ZCP EG11.
 (4) Value taken with actuation by moving part at 100 mm from the fixings.

Dimensions

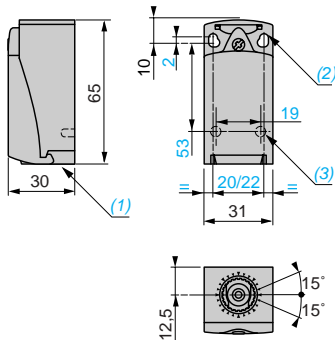
Limit switches

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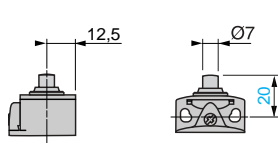
Compact design, plastic, type XCK P

Complete units with 1 ISO M16 x 1.5 cable entry

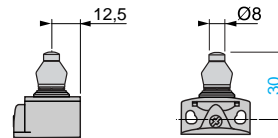
ZCP 2● + ZCP EP16 / ZCP 3● + ZCP EP16



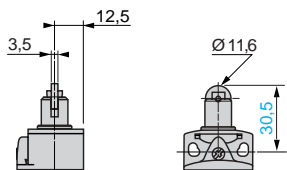
ZCE 10



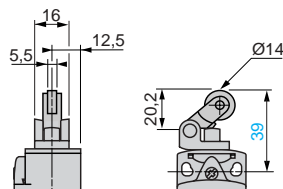
ZCE 11



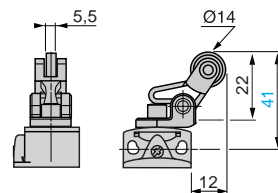
ZCE 02



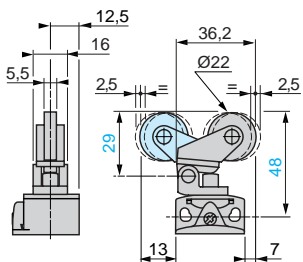
ZCE 21



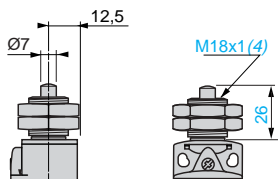
ZCE 27



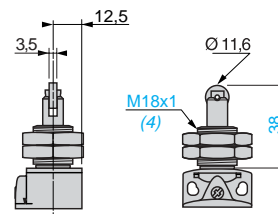
ZCE 28



ZCE H0



ZCE H2



- (1) Tapped entry for ISO M16 x 1.5 or Pg 11 cable gland.
 (2) 2 elongated holes $\text{Ø} 4.3 \times 6.3 \text{ mm}$ on 22 mm centres, 2 holes $\text{Ø} 4.3$ on 20 mm centres.
 (3) 2 x $\text{Ø} 3$ holes for support studs, depth 4 mm.
 (4) Fixing nut thickness 3.5 mm.

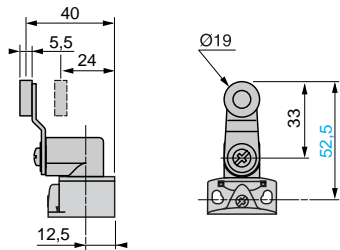
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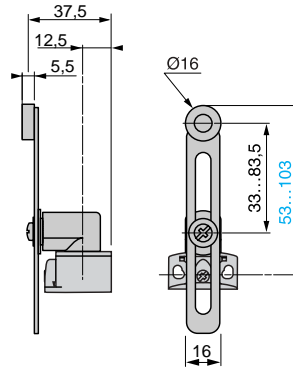
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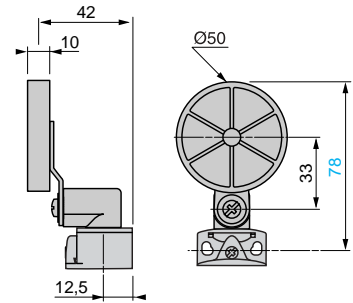
ZCE 01 + ZCY 18



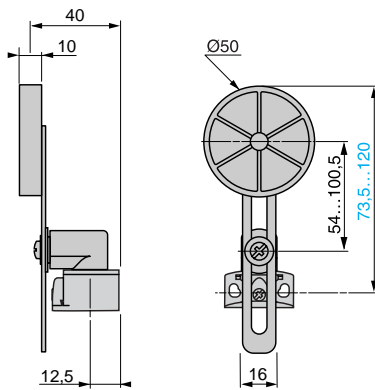
ZCE 01 + ZCY 45



ZCE 01 + ZCY 39



ZCE 01 + ZCY 49



ZCE 06

