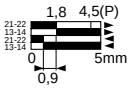
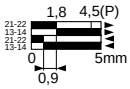
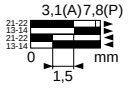
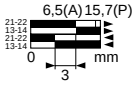
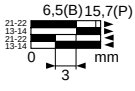
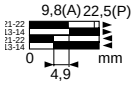
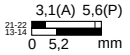
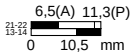
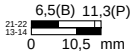
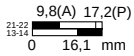
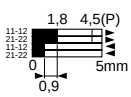
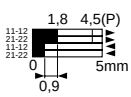
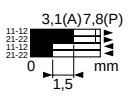
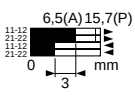
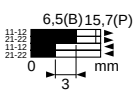
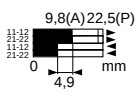
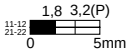
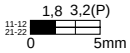
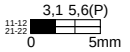
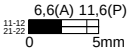
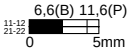
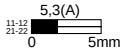
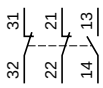
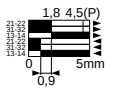
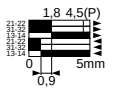
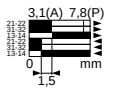
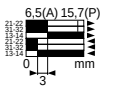
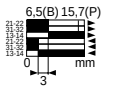
Limit switches

Osiswitch® Universal, **Osi**concept®

Compact design, metal, type XCK D

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 D2110P16** ⊖ 	**XCK D2111P16** ⊖ 	**XCK D2102P16** ⊖ 	**XCK D2121P16** ⊖ 	**XCK D2127P16** ⊖ 	**XCK D2128P16** ⊖ 
 **2-pole N/C + N/O break before make, slow break (XE2N P2151)**	**XCK D2510P16** ⊖ 	**XCK D2511P16** ⊖ 	**XCK D2502P16** ⊖ 	**XCK D2521P16** ⊖ 	**XCK D2527P16** ⊖ 	**XCK D2528P16** ⊖ 
 **2-pole N/C + N/C snap action (XE2S P2141)**	**ZCD 29 + ZCD EP16 + ZCE 10** ⊖ 	**ZCD 29 + ZCD EP16 + ZCE 11** ⊖ 	**ZCD 29 + ZCD EP16 + ZCE 02** ⊖ 	**ZCD 29 + ZCD EP16 + ZCE 21** ⊖ 	**ZCD 29 + ZCD EP16 + ZCE 27** ⊖ 	**ZCD 29 + ZCD EP16 + ZCE 28** ⊖ 
 **2-pole N/C + N/C simultaneous, slow break (XE2N P2141)**	**ZCD 27 + ZCD EP16 + ZCE 10** ⊖ 	**ZCD 27 + ZCD EP16 + ZCE 11** ⊖ 	**ZCD 27 + ZCD EP16 + ZCE 02** ⊖ 	**ZCD 27 + ZCD EP16 + ZCE 21** ⊖ 	**ZCD 27 + ZCD EP16 + ZCE 27** ⊖ 	**ZCD 27 + ZCD EP16 + ZCE 28** ⊖ 
 **3-pole N/C + N/C + N/O snap action (XE3S P2141)**	**ZCD 39 + ZCD EP16 + ZCE 10** ⊖ 	**ZCD 39 + ZCD EP16 + ZCE 11** ⊖ 	**ZCD 39 + ZCD EP16 + ZCE 02** ⊖ 	**ZCD 39 + ZCD EP16 + ZCE 21** ⊖ 	**ZCD 39 + ZCD EP16 + ZCE 27** ⊖ 	**ZCD 39 + ZCD EP16 + ZCE 28** ⊖
3-pole N/C + N/C + N/O break before make, slow break (XE3N P2141)	**ZCD 37 + ZCD EP16 + ZCE 10** ⊖	**ZCD 37 + ZCD EP16 + ZCE 11** ⊖	**ZCD 37 + ZCD EP16 + ZCE 02** ⊖	**ZCD 37 + ZCD EP16 + ZCE 21** ⊖	**ZCD 37 + ZCD EP16 + ZCE 27** ⊖	**ZCD 37 + ZCD EP16 + ZCE 28** ⊖
Weight (kg)	0.180	0.180	0.185	0.195	0.190	0.195
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.

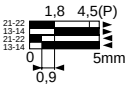
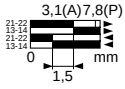
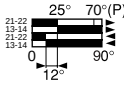
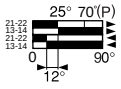
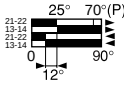
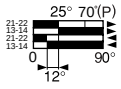
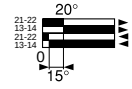
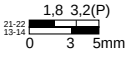
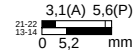
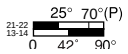
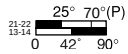
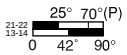
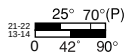
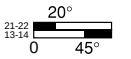
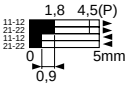
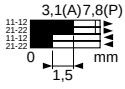
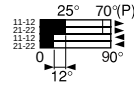
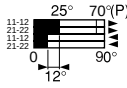
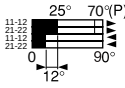
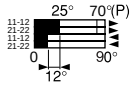
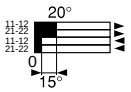
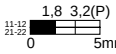
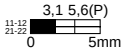
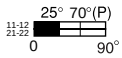
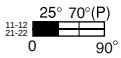
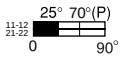
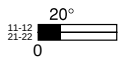
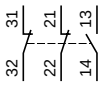
*(3) For an entry tapped for a n° 11 cable gland, replace P16 in the reference by **G11**. Examples: XCK D2110P16 becomes **XCK D2110G11**, ZCD EP16 becomes **ZCD EG11**.*

Limit switches

Osiswitch® Universal, **Osi**concept®

Compact design, metal, type XCK D

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) (3)*							
 **2-pole N/C + N/O snap action (XE2S P2151)**	**XCK D21H0P16** 	**XCK D21H2P16** 	**XCK D2118P16** 	**XCK D2145P16** 	**XCK D2139P16** 	**XCK D2149P16** 	**XCK D2106P16** 
 **2-pole N/C + N/O break before make, slow break (XE2N P2151)**	**XCK D25H0P16** 	**XCK D25H2P16** 	**XCK D2518P16** 	**XCK D2545P16** 	**XCK D2539P16** 	**XCK D2549P16** 	**XCK D2506P16** 
 **2-pole N/C + N/C snap action (XE2S P2141)**	**ZCD 29 + ZCD EP16 + ZCE H0** 	**ZCD 29 + ZCD EP16 + ZCE H2** 	**ZCD 29 + ZCD EP16 + ZCE 01 + ZCY 18** 	**ZCD 29 + ZCD EP16 + ZCE 01 + ZCY 45** 	**ZCD 29 + ZCD EP16 + ZCE 01 + ZCY 39** 	**ZCD 29 + ZCD EP16 + ZCE 01 + ZCY 49** 	**ZCD29 + ZCD EP16 + ZCE 06** 
 **2-pole N/C + N/C simultaneous, slow break (XE2N P2141)**	**ZCD 27 + ZCD EP16 + ZCE H0** 	**ZCD 27 + ZCD EP16 + ZCE H2** 	**ZCD 27 + ZCD EP16 + ZCE 01 + ZCY 18** 	**ZCD 27 + ZCD EP16 + ZCE 01 + ZCY 45** 	**ZCD 27 + ZCD EP16 + ZCE 01 + ZCY 39** 	**ZCD 27 + ZCD EP16 + ZCE 01 + ZCY 49** 	**ZCD 27 + ZCD EP16 + ZCE 06** 
 **3-pole N/C + N/C + N/O snap action (XE3S P2141)**	**ZCD 39 + ZCD EP16 + ZCE H0**	**ZCD 39 + ZCD EP16 + ZCE H2**	**ZCD 39 + ZCD EP16 + ZCE 01 + ZCY 18**	**ZCD 39 + ZCD EP16 + ZCE 01 + ZCY 45**	**ZCD 39 + ZCD EP16 + ZCE 01 + ZCY 39**	**ZCD 39 + ZCD EP16 + ZCE 01 + ZCY 49**	**ZCD 39 + ZCD EP16 + ZCE 06**
3-pole N/C + N/C + N/O break before make, slow break (XE3N P2141)	**ZCD 37+ ZCD EP16 + ZCE H0**	**ZCD 37 + ZCD EP16 + ZCE H2**	**ZCD 37 + ZCD EP16 + ZCE 01 + ZCY 18**	**ZCD 37 + ZCD EP16 + ZCE 01 + ZCY 45**	**ZCD 37 + ZCD EP16 + ZCE 01 + ZCY 39**	**ZCD 37 + ZCD EP16 + ZCE 01 + ZCY 49**	**ZCD 37 + ZCD EP16 + ZCE 06**
Weight (kg)	0.220	0.220	0.225	0.235	0.235	0.245	0.175

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	10 N	0.1 N.m			0.13 N.m
Minimum force or torque — For positive opening	45 N	36 N	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 reference by **G11**. Examples: XCK D21H0P16 becomes **XCK D21H0G11**, ZCD EP16 becomes **ZCD EG11**.*

(4) Value taken with actuation by moving part at 100 mm from the fixings.

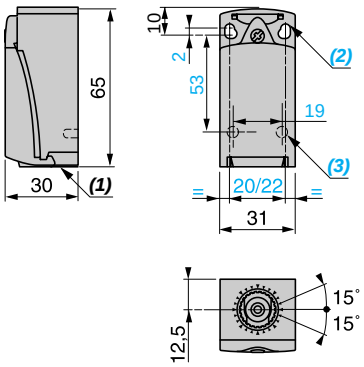
Limit switches

Osiswitch® Universal, **Osi**concept®

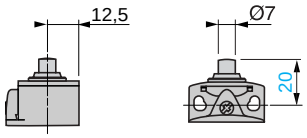
Compact design,metal, type XCK D

Complete units with 1 ISO M16 x 1.5 cable entry

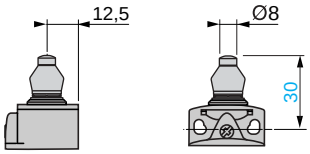
ZCD 2● + ZCD EP16 / ZCD 3● + ZCDE P16



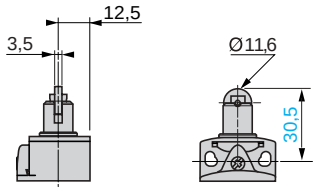
ZCE 10



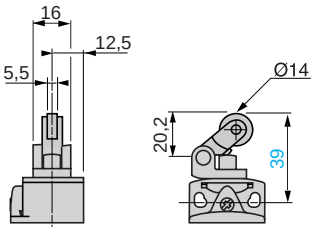
ZCE 11



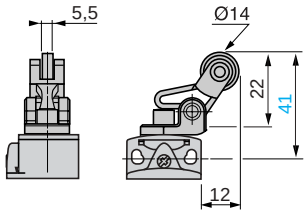
ZCE 02



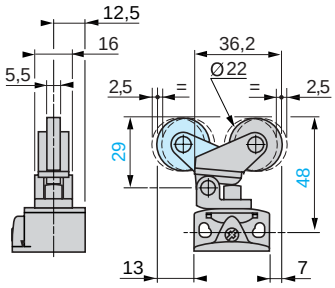
ZCE 21



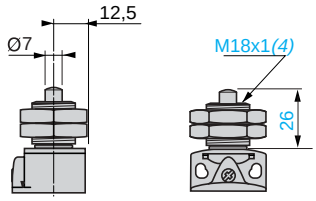
ZCE 27



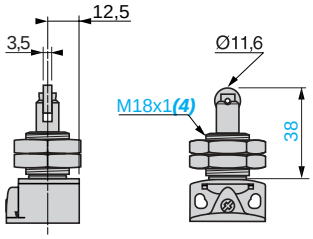
ZCE 28



ZCE H0



ZCE H2

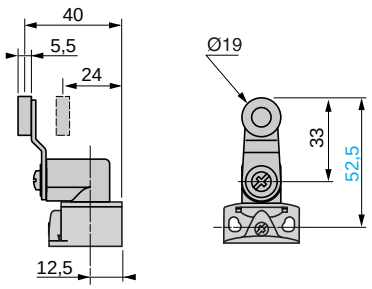


(1) Tapped entry for ISO M16 x 1.5 or Pg 11 cable gland.
(2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
(3) 2 x Ø 3 holes for support studs, depth 4 mm.
(4) Fixing nut thickness 3.5 mm.

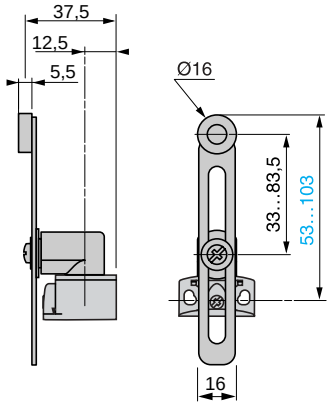
Limit switches

Osiswitch® Universal, **Osi**concept®
Compact design, metal, type XCK D
Complete units with 1 ISO M16 x 1.5 cable entry

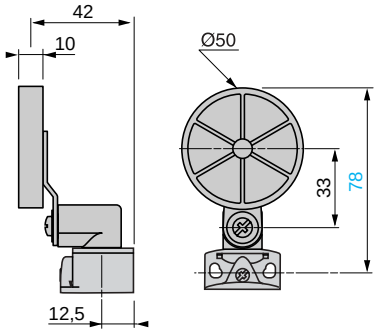
ZCE 01 + ZCY 18



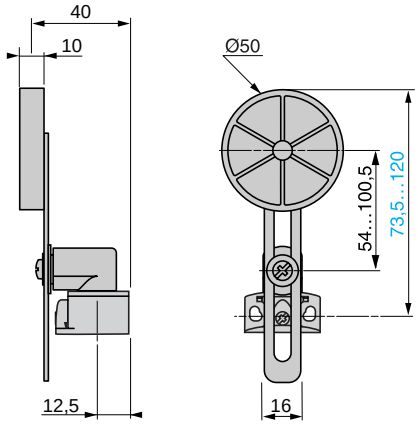
ZCE 01 + ZCY 45



ZCE 01 + ZCY 39



ZCE 01 + ZCY 49



ZCE 06