






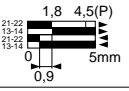
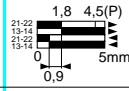
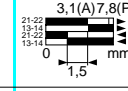
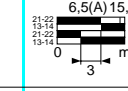
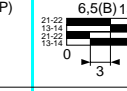
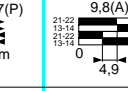

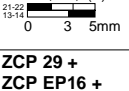
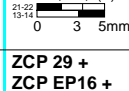
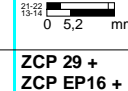
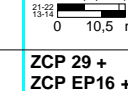
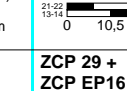
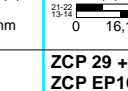

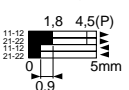
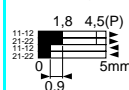

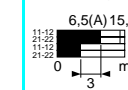
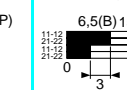
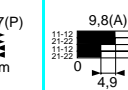

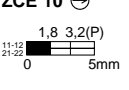
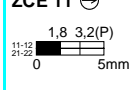
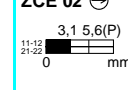
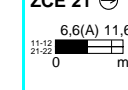
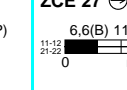
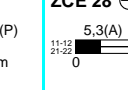

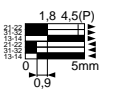
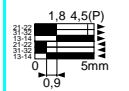
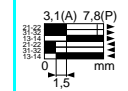
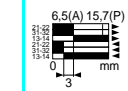
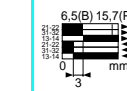
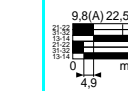

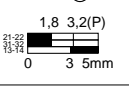
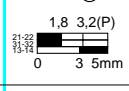
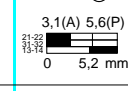
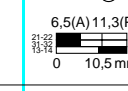
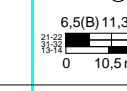
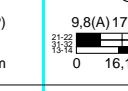







Limit switches

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  | XCK P2111P16  | XCK P2102P16  | XCK P2121P16  | XCK P2127P16  | XCK P2128P16  |
|  | 2-pole N/C + N/O break before make, slow break (XE2N P2151) | XCK P2510P16  | XCK P2511P16  | XCK P2502P16  | XCK P2521P16  | XCK P2527P16  | XCK P2528P16  |
|  | 2-pole N/C + N/C snap action (XE2S P2141) | ZCP 29 + ZCP EP16 + ZCE 10  | ZCP 29 + ZCP EP16 + ZCE 11  | ZCP 29 + ZCP EP16 + ZCE 02  | ZCP 29 + ZCP EP16 + ZCE 21  | ZCP 29 + ZCP EP16 + ZCE 27  | ZCP 29 + ZCP EP16 + ZCE 28  |
|  | 2-pole N/C + N/C simultaneous, slow break (XE2N P2141) | ZCP 27 + ZCP EP16 + ZCE 10  | ZCP 27 + ZCP EP16 + ZCE 11  | ZCP 27 + ZCP EP16 + ZCE 02  | ZCP 27 + ZCP EP16 + ZCE 21  | ZCP 27 + ZCP EP16 + ZCE 27  | ZCP 27 + ZCP EP16 + ZCE 28  |
|  | 3-pole N/C + N/C + N/O snap action (XE3S P2141) | ZCP 39 + ZCP EP16 + ZCE 10  | ZCP 39 + ZCP EP16 + ZCE 11  | ZCP 39 + ZCP EP16 + ZCE 02  | ZCP 39 + ZCP EP16 + ZCE 21  | ZCP 39 + ZCP EP16 + ZCE 27  | ZCP 39 + ZCP EP16 + ZCE 28  |
|  | 3-pole N/C + N/C + N/O break before make, slow break (XE3N P2141) | ZCP 37 + ZCP EP16 + ZCE 10  | ZCP 37 + ZCP EP16 + ZCE 11  | ZCP 37 + ZCP EP16 + ZCE 02  | ZCP 37 + ZCP EP16 + ZCE 21  | ZCP 37 + ZCP EP16 + ZCE 27  | ZCP 37 + ZCP EP16 + ZCE 28  |
| 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 | | | | | | |





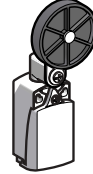
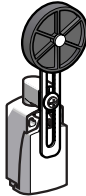

(1) Form conforming to EN 50047, see page 31900/8.


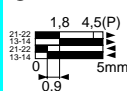
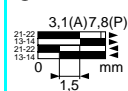
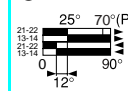
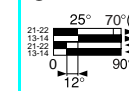
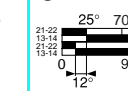
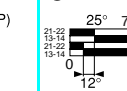
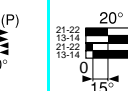

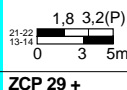
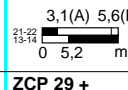
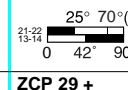
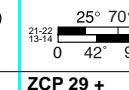
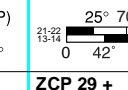
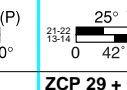
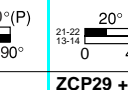

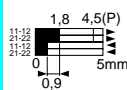
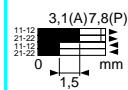
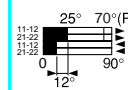
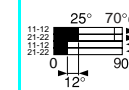
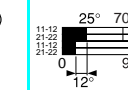
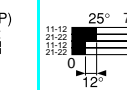
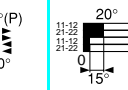

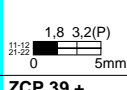
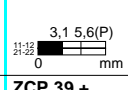
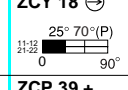
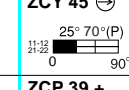
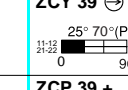
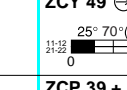
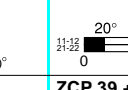

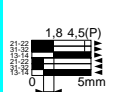

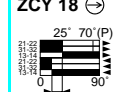
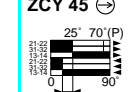
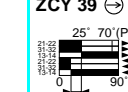



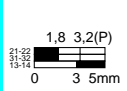
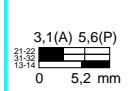
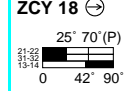
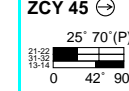
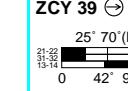
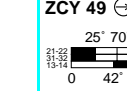



(2) Switches with gold contacts or ring type connections: please consult our Regional Sales Office.

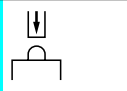
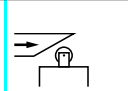
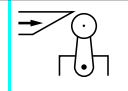
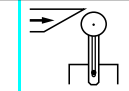
(3) For an entry tapped for a n° 11 cable gland, replace P16 in the reference by G11. Examples: XCK P2110P16 becomes XCK P2110G11, ZCP EP16 becomes ZCP EG11.

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 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 ⊖  | XCK P21H2P16 ⊖  | XCK P2118P16 ⊖  | XCK P2145P16 ⊖  | XCK P2139P16 ⊖  | XCK P2149P16 ⊖  | XCK P2106P16 ⊖  |
|  | XCK P25H0P16 ⊖  | XCK P25H2P16 ⊖  | XCK P2518P16 ⊖  | XCK P2545P16 ⊖  | XCK P2539P16 ⊖  | XCK P2549P16 ⊖  | XCK P2506P16 ⊖  |
|  | ZCP 29 + ZCP EP16 + ZCE H0 ⊖  | ZCP 29 + ZCP EP16 + ZCE H2 ⊖  | ZCP 29 + ZCP EP16 + ZCE 01 + ZCY 18 ⊖  | ZCP 29 + ZCP EP16 + ZCE 01 + ZCY 45 ⊖  | ZCP 29 + ZCP EP16 + ZCE 01 + ZCY 39 ⊖  | ZCP 29 + ZCP EP16 + ZCE 01 + ZCY 49 ⊖  | ZCP 29 + ZCP EP16 + ZCE 06  |
|  | ZCP 27 + ZCP EP16 + ZCE H0 ⊖  | ZCP 27 + ZCP EP16 + ZCE H2 ⊖  | ZCP 27 + ZCP EP16 + ZCE 01 + ZCY 18 ⊖  | ZCP 27 + ZCP EP16 + ZCE 01 + ZCY 45 ⊖  | ZCP 27 + ZCP EP16 + ZCE 01 + ZCY 39 ⊖  | ZCP 27 + ZCP EP16 + ZCE 01 + ZCY 49 ⊖  | ZCP 27 + ZCP EP16 + ZCE 06  |
|  | ZCP 39 + ZCP EP16 + ZCE H0 ⊖  | ZCP 39 + ZCP EP16 + ZCE H2 ⊖  | ZCP 39 + ZCP EP16 + ZCE 01 + ZCY 18 ⊖  | ZCP 39 + ZCP EP16 + ZCE 01 + ZCY 45 ⊖  | ZCP 39 + ZCP EP16 + ZCE 01 + ZCY 39 ⊖  | ZCP 39 + ZCP EP16 + ZCE 01 + ZCY 49 ⊖  | ZCP 39 + ZCP EP16 + ZCE 06  |
|  | ZCP 37 + ZCP EP16 + ZCE H0 ⊖  | ZCP 37 + ZCP EP16 + ZCE H2 ⊖  | ZCP 37 + ZCP EP16 + ZCE 01 + ZCY 18 ⊖  | ZCP 37 + ZCP EP16 + ZCE 01 + ZCY 45 ⊖  | ZCP 37 + ZCP EP16 + ZCE 01 + ZCY 39 ⊖  | ZCP 37 + ZCP EP16 + ZCE 01 + ZCY 49 ⊖  | ZCP 37 + ZCP EP16 + ZCE 06  |
| 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 | | | |
| 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 | 0.13 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

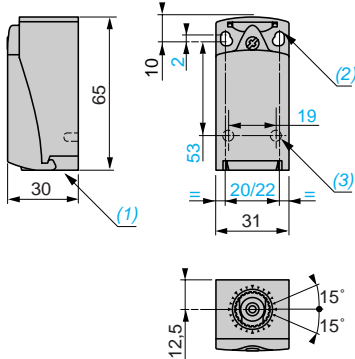
Limit switches

Osiswitch® Universal, Osiconcept®

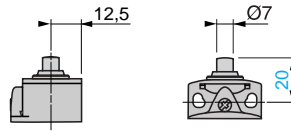
Compact design, plastic, type XCK P

Complete units with 1 ISO M16 x 1.5 cable entry

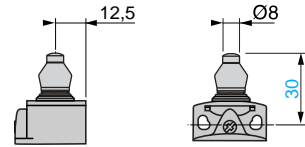
ZCP 2● + ZCP EP16 / ZCP 3● + ZCP EP16



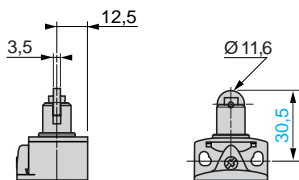
ZCE 10



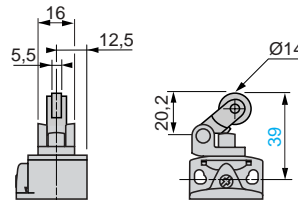
ZCE 11



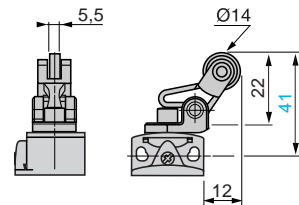
ZCE 02



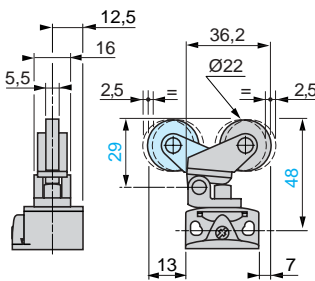
ZCE 21



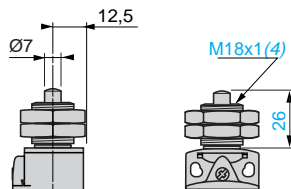
ZCE 27



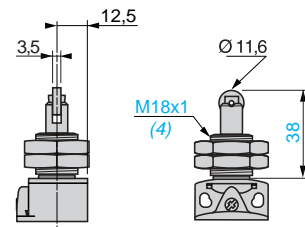
ZCE 28



ZCE H0



ZCE H2



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

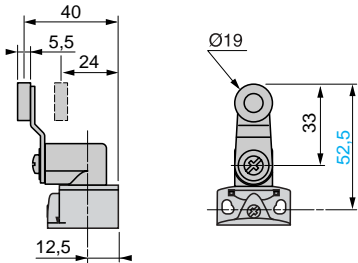
Limit switches

Osiswitch® Universal, Osiconcept®

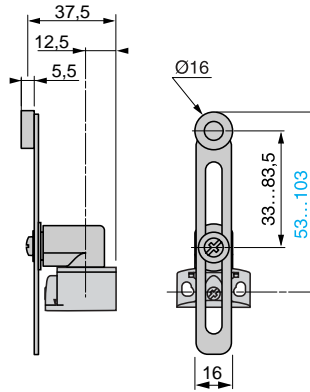
Compact design, plastic, type XCK P

Complete units with 1 ISO M16 x 1.5 cable entry

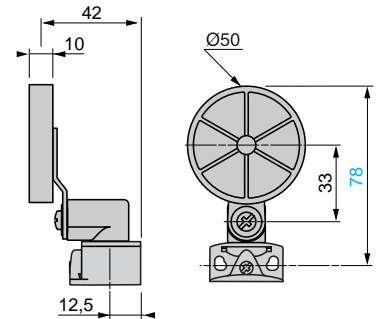
ZCE 01 + ZCY 18



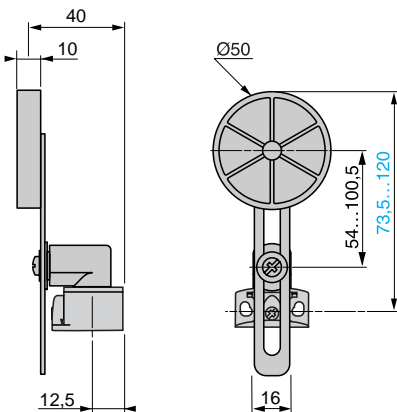
ZCE 01 + ZCY 45



ZCE 01 + ZCY 39



ZCE 01 + ZCY 49



ZCE 06

