

Limit switches

OsiSense XC Standard

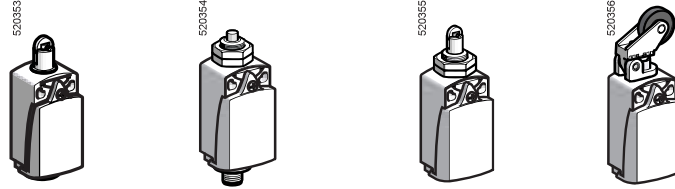
Compact design, plastic, types XCKP and XCKT

Compact design, metal, type XCKD

1

■ **XCKP, XCKD**
with 1 cable entry
Conforming to CENELEC EN 50047

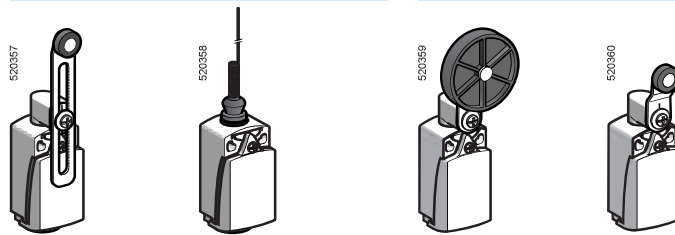
□ With head for linear movement (plunger). Fixing by the head or by the body
XCKD **XCKP**



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□ With head for rotary movement (lever) or multi-directional. Fixing by the body
XCKD **XCKP**

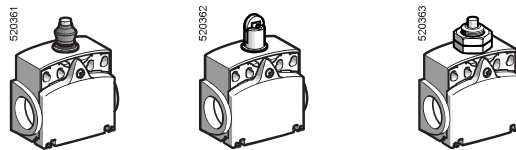


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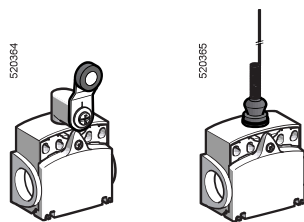
■ **XCKT**
with 2 cable entries
Tripping/resetting points and fixing centres conform to CENELEC EN 50047

□ With head for linear movement (plunger). Fixing by the head or by the body
XCKT



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□ With head for rotary movement (lever) or multi-directional. Fixing by the body
XCKT



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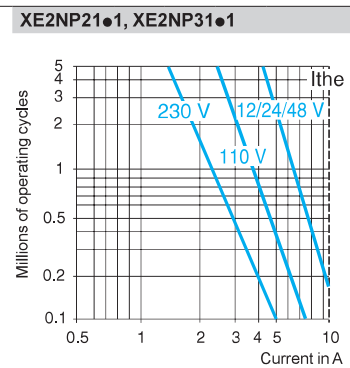
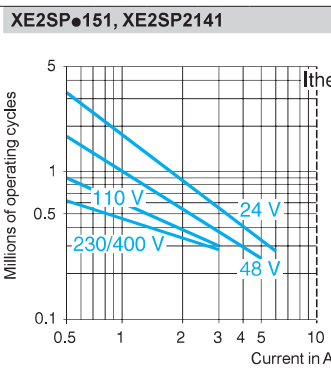
Environment characteristics

| | | |
|---------------------------|------------------------------|--|
| Conformity to standards | Products | IEC 60947-5-1, EN 60947-5-1, UL 508, CSA C22-2 n° 14 |
| | Machine assemblies | IEC 60204-1, EN 60204-1 |
| Product certifications | | UL, CSA, CCC |
| Protective treatment | Standard version | "TC" |
| Ambient air temperature | For operation | - 25...+ 70°C |
| | For storage | - 40...+ 70°C |
| Vibration resistance | Conforming to IEC 60068-2-6 | 25 gn (10...500 Hz) except product with head ZCE24: 20 gn |
| Shock resistance | Conforming to IEC 60068-2-27 | 50 gn (11 ms) except head ZCE08: 15 gn (11 ms) and ZCE24: 30 gn (18 ms) |
| Electric shock protection | | Class II conforming to IEC 61140 and NF C 20-030 for XCKP and XCKT |
| | | Class I conforming to IEC 61140 and NF C 20-030 for XCKD |
| Degree of protection | | IP 66 and IP 67 conforming to IEC 60529; IK 04 conforming to EN 50102 for XCKP and XCKT, IK 06 conforming to EN 50102 for XCKD |
| Repeat accuracy | | 0.1 mm on the tripping points, with 1 million operating cycles for head with end plunger |
| Cable entry or connector | Depending on model | Either tapped entry for n° 11 or n° 13 cable gland, tapped ISO M16 x 1.5 or ISO M20 x 1.5, tapped 1/2" NPT or PF 1/2 (G1/2) or M12 connector |
| Materials | | XCKD Zamak bodies and heads, XCKP and XCKT plastic bodies, Zamak heads |



| Contact block characteristics | | |
|---|-------------------------|--|
| Rated operational characteristics | XE2●P | ~AC-15; A300 (Ue = 240 V, Ie = 3 A); Ithe = 10 A ---DC-13; Q300 (Ue = 250 V, Ie = 0.27 A), conforming to IEC 60947-5-1 Appendix A, EN 60947-5-1 |
| | XE3●P | ~AC-15; B300 (Ue = 240 V, Ie = 1.5 A); Ithe = 6 A ---DC-13; R300 (Ue = 250 V, Ie = 0.1 A), conforming to IEC 60947-5-1 Appendix A, EN 60947-5-1 |
| Rated insulation voltage | XE2●P | Ui = 500 V degree of pollution 3 conforming to IEC 60947-1 Ui = 300 V conforming to UL 508, CSA C22-2 n° 14 |
| | XE3●P | Ui = 400 V degree of pollution 3 conforming to IEC 60947-1 Ui = 300 V conforming to UL 508, CSA C22-2 n° 14 |
| Rated impulse withstand voltage | XE2●P | U imp = 6 kV conforming to IEC 60947-1, IEC 60664 |
| | XE3●P | U imp = 4 kV conforming to IEC 60947-1, IEC 60664 |
| Positive operation (depending on model) | | NC contacts with positive opening operation conforming to IEC 60947-5-1 Appendix K, EN 60947-5-1 |
| Resistance across terminals | | ≤ 25 mΩ conforming to IEC 60255-7 category 3 |
| Short-circuit protection | XE2●P | 10 A cartridge fuse type gG (gl) |
| | XE3●P | 6 A cartridge fuse type gG (gl) |
| Connection (screw clamp terminals) | XE2SP●151 and XE2SP2141 | Clamping capacity, min: 1 x 0.34 mm ² , max: 2 x 1.5 mm ² |
| | XE2NP21●1 and XE2NP31●1 | Clamping capacity, min: 1 x 0.5 mm ² , max: 2 x 2.5 mm ² |
| | XE3NP and XE3SP | Clamping capacity, min: 1 x 0.34 mm ² , max: 1 x 1 mm ² or 2 x 0.75 mm ² |
| Minimum actuation speed (for head with end plunger) | | XE2SP●151, XE2SP2141 and XE3SP: 0.01 m/minute |
| | | XE2NP21●1, XE2NP31●1 and XE3NP: 6 m/minute |
| Electrical durability | | ■ Conforming to IEC 60947-5-1 Appendix C |
| | | ■ Utilisation categories AC-15 and DC-13 |
| | | ■ Maximum operating rate: 3600 operating cycles/hour |
| | | ■ Load factor: 0.5 |

AC supply
50/60 Hz ~
mm. inductive circuit



DC supply ---

Power broken in W for 5 million operating cycles.

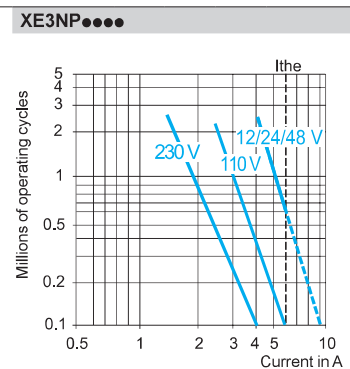
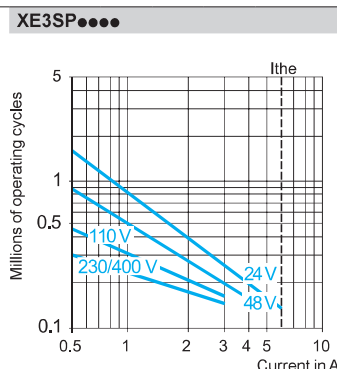
| Voltage V | 24 | 48 | 120 |
|-----------|----|----|-----|
| mm W | 10 | 7 | 4 |

Power broken in W for 5 million operating cycles.

| Voltage V | 24 | 48 | 120 |
|-----------|----|----|-----|
| mm W | 13 | 9 | 7 |

For XE2SP●151 on ~ or ---, NC and NO contacts simultaneously loaded to the values shown with reverse polarity.

AC supply
50/60 Hz ~
mm. inductive circuit



DC supply ---

Power broken in W for 5 million operating cycles.

| Voltage V | 24 | 48 | 120 |
|-----------|----|----|-----|
| mm W | 3 | 2 | 1 |

Power broken in W for 5 million operating cycles.

| Voltage V | 24 | 48 | 120 |
|-----------|----|----|-----|
| mm W | 4 | 3 | 2 |

Limit switches

OsiSense XC Standard

Compact design, plastic, type XCKP
Complete switches with 1 cable entry

1

| 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 of complete switches with 1 ISO M16 x 1.5 cable entry (2) | | | | | | | |
|--|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | 2-pole NC + NO snap action (XE2SP2151) | XCKP2110P16 | XCKP2111P16 | XCKP2102P16 | XCKP2121P16 | XCKP2127P16 | XCKP2128P16 |
| | 2-pole NC + NO break before make, slow break (XE2NP2151) | XCKP2510P16 | XCKP2511P16 | XCKP2502P16 | XCKP2521P16 | XCKP2527P16 | XCKP2528P16 |
| | 2-pole NC + NC snap action (XE2SP2141) | ZCP29 + ZCPEP16 + ZCE10 | ZCP29 + ZCPEP16 + ZCE11 | ZCP29 + ZCPEP16 + ZCE02 | ZCP29 + ZCPEP16 + ZCE21 | ZCP29 + ZCPEP16 + ZCE27 | ZCP29 + ZCPEP16 + ZCE28 |
| | 2-pole NC + NC simultaneous, slow break (XE2NP2141) | ZCP27 + ZCPEP16 + ZCE10 | ZCP27 + ZCPEP16 + ZCE11 | ZCP27 + ZCPEP16 + ZCE02 | ZCP27 + ZCPEP16 + ZCE21 | ZCP27 + ZCPEP16 + ZCE27 | ZCP27 + ZCPEP16 + ZCE28 |
| | 3-pole NC + NC + NO snap action (XE3SP2141) | ZCP39 + ZCPEP16 + ZCE10 | ZCP39 + ZCPEP16 + ZCE11 | ZCP39 + ZCPEP16 + ZCE02 | ZCP39 + ZCPEP16 + ZCE21 | ZCP39 + ZCPEP16 + ZCE27 | ZCP39 + ZCPEP16 + ZCE28 |
| | 3-pole NC + NC + NO break before make, slow break (XE3NP2141) | ZCP37 + ZCPEP16 + ZCE10 | ZCP37 + ZCPEP16 + ZCE11 | ZCP37 + ZCPEP16 + ZCE02 | ZCP37 + ZCPEP16 + ZCE21 | ZCP37 + ZCPEP16 + ZCE27 | ZCP37 + ZCPEP16 + ZCE28 |
| Weight (kg) | | 0.090 | 0.090 | 0.095 | 0.105 | 0.100 | 0.105 |

References of complete switches with 1 entry for n° 11 cable gland

For an entry tapped for a n° 11 cable gland, replace P16 in the reference by G11. Example: XCKP2110P16 becomes XCKP2110G11 or ZCPEP16 becomes ZCEG11.

| | | | |
|-------------------|----------------|--|--|
| Contact operation | closed open | (A) (B) = cam displacement (P) = positive opening point | NC contact with positive opening operation |
|-------------------|----------------|--|--|

| Characteristics | | On end | By 30° cam |
|---|----------------------|--|------------|
| 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 |
| Minimum force or torque | For tripping | 15 N | 12 N |
| | For positive opening | 45 N | 36 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 1/136.
(2) Switches with gold contacts or eyelet type connections: please consult our Customer Care Centre.

Limit switches

OsiSense XC Standard

Compact design, plastic, type XCKP
Complete switches with 1 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" (2) |



| References of complete switches with 1 ISO M16 x 1.5 cable entry (3) | | | | | | | | |
|--|---|--|---|--|--|--|--|---|
| | 2-pole NC + NO snap action (XE2SP2151) | XCKP21H0P16 1.8 4.6(P) 0.9 5mm | XCKP21H2P16 3.1(A) 7.8(P) 0 1.5 | XCKP2118P16 25° 70°(P) 0 12° 90° | XCKP2145P16 25° 70°(P) 0 12° 90° | XCKP2139P16 25° 70°(P) 0 12° 90° | XCKP2149P16 25° 70°(P) 0 12° 90° | XCKP2106P16 20° 0 15° |
| | 2-pole NC + NO break before make, slow break (XE2NP2151) | XCKP25H0P16 1.8 3.2(P) 0 3 5mm | XCKP25H2P16 3.1(A) 5.6(P) 0 5.2 | XCKP2518P16 25° 46°(P) 0 42° 90° | XCKP2545P16 25° 46°(P) 0 42° 90° | XCKP2539P16 25° 46°(P) 0 42° 90° | XCKP2549P16 25° 46°(P) 0 42° 90° | XCKP2506P16 20° 0 45° |
| | 2-pole NC + NC snap action (XE2SP2141) | ZCP29 + ZCPEP16 + ZCEH0 1.8 4.6(P) 0.9 5mm | ZCP29 + ZCPEP16 + ZCEH2 3.1(A) 7.8(P) 0 1.5 | ZCP29 + ZCPEP16 + ZCE01 + ZCY18 25° 70°(P) 0 12° 90° | ZCP29 + ZCPEP16 + ZCE01 + ZCY45 25° 70°(P) 0 12° 90° | ZCP29 + ZCPEP16 + ZCE01 + ZCY39 25° 70°(P) 0 12° 90° | ZCP29 + ZCPEP16 + ZCE01 + ZCY49 25° 70°(P) 0 12° 90° | ZCP29 + ZCPEP16 + ZCE06 20° 0 15° |
| | 2-pole NC + NC simultaneous, slow break (XE2NP2141) | ZCP27 + ZCPEP16 + ZCEH0 1.8 3.2(P) 0 5mm | ZCP27 + ZCPEP16 + ZCEH2 3.1 5.6(P) 0 5.2 | ZCP27 + ZCPEP16 + ZCE01 + ZCY18 25° 46°(P) 0 42° 90° | ZCP27 + ZCPEP16 + ZCE01 + ZCY45 25° 46°(P) 0 42° 90° | ZCP27 + ZCPEP16 + ZCE01 + ZCY39 25° 46°(P) 0 42° 90° | ZCP27 + ZCPEP16 + ZCE01 + ZCY49 25° 46°(P) 0 42° 90° | ZCP27 + ZCPEP16 + ZCE06 20° 0 45° |
| | 3-pole NC + NC + NO snap action (XE3SP2141) | ZCP39 + ZCPEP16 + ZCEH0 1.8 4.6(P) 0.9 5mm | ZCP39 + ZCPEP16 + ZCEH2 3.1(A) 7.8(P) 0 1.5 | ZCP39 + ZCPEP16 + ZCE01 + ZCY18 25° 70°(P) 0 12° 90° | ZCP39 + ZCPEP16 + ZCE01 + ZCY45 25° 70°(P) 0 12° 90° | ZCP39 + ZCPEP16 + ZCE01 + ZCY39 25° 70°(P) 0 12° 90° | ZCP39 + ZCPEP16 + ZCE01 + ZCY49 25° 70°(P) 0 12° 90° | ZCP39 + ZCPEP16 + ZCE06 20° 0 15° |
| | 3-pole NC + NC + NO break before make, slow break (XE3NP2141) | ZCP37 + ZCPEP16 + ZCEH0 1.8 3.2(P) 0 3 5mm | ZCP37 + ZCPEP16 + ZCEH2 3.1(A) 5.6(P) 0 5.2 | ZCP37 + ZCPEP16 + ZCE01 + ZCY18 25° 46°(P) 0 42° 90° | ZCP37 + ZCPEP16 + ZCE01 + ZCY45 25° 46°(P) 0 42° 90° | ZCP37 + ZCPEP16 + ZCE01 + ZCY39 25° 46°(P) 0 42° 90° | ZCP37 + ZCPEP16 + ZCE01 + ZCY49 25° 46°(P) 0 42° 90° | ZCP37 + ZCPEP16 + ZCE06 20° 0 45° |
| Weight (kg) | 0.130 | 0.130 | 0.135 | 0.145 | 0.145 | 0.155 | 0.085 | |

References of complete switches with 1 entry for n° 11 cable gland

For an entry tapped for a n° 11 cable gland, replace P16 in the reference by G11. Example: XCKP21H0P16 becomes XCKP21H0G11 or ZCPEP16 becomes ZCPEG11.

Contact operation closed (A) = cam displacement NC contact with positive opening operation
 open (P) = positive opening point

| 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 |
| Minimum force or torque | For tripping For positive opening | 15 N 45 N | 10 N 36 N | 0.1 N.m 0.25 N.m | 0.13 N.m - |
| Cable entry | 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 1/136.

(2) Value taken with actuation by moving part at 100 mm from the fixing.

(3) Switches with gold contacts or eyelet type connections: please consult our Customer Care Centre.

Limit switches

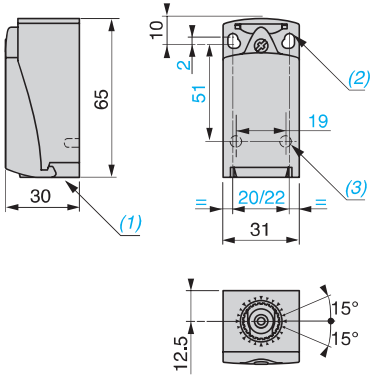
OsiSense XC Standard

Compact design, plastic, type XCKP

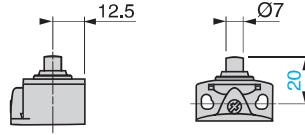
Complete switches with 1 cable entry

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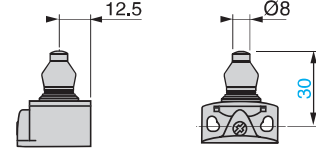
ZCP2● + ZCPEP16/ZCP3● + ZCPEP16



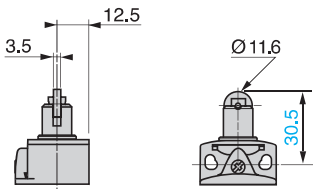
ZCE10



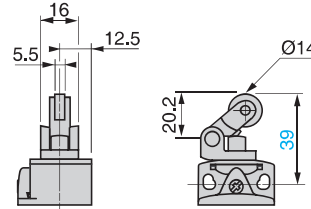
ZCE11



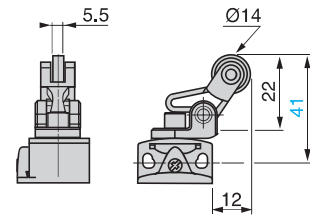
ZCE02



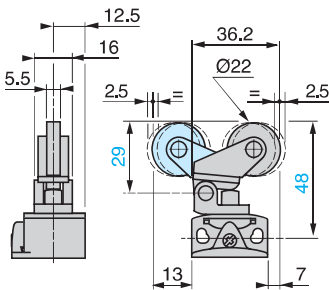
ZCE21



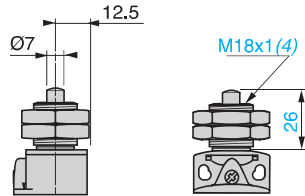
ZCE27



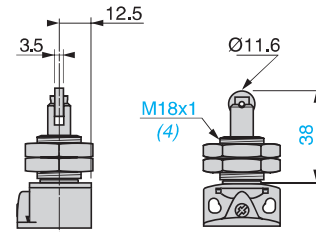
ZCE28



ZCEH0



ZCEH2



- (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.

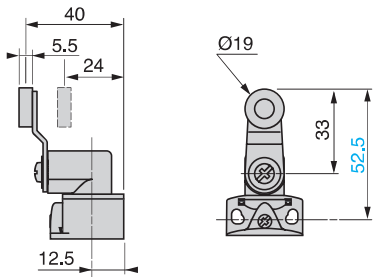
Limit switches

OsiSense XC Standard

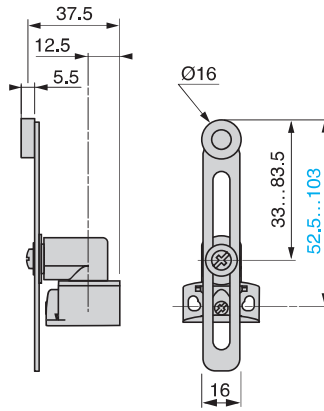
Compact design, plastic, type XCKP

Complete switches with 1 cable entry

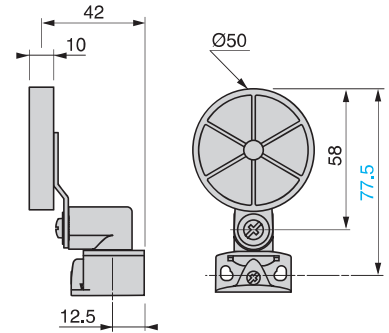
ZCE01 + ZCY18



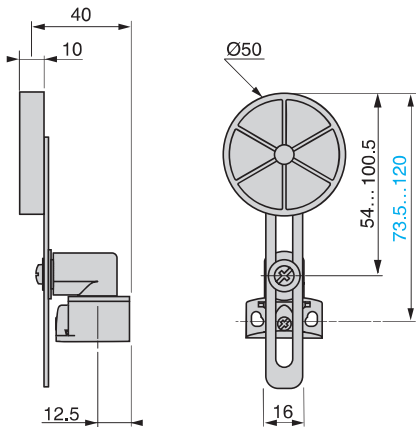
ZCE01 + ZCY45



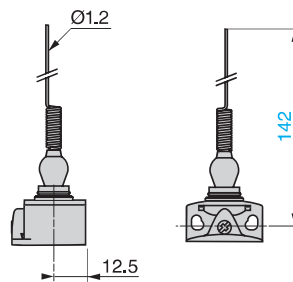
ZCE01 + ZCY39



ZCE01 + ZCY49



ZCE06



Limit switches

OsiSense XC Standard

Compact design, plastic, type XCKP
M12 connector

1

| 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 (2) | 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 |

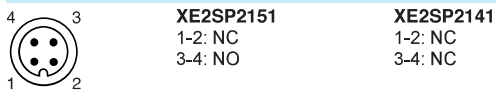
| References | | | | | | |
|--|------------------|------------------|--|------------------|--|------------------|
| 2-pole NC + NO snap action (XE2SP2151) | XCKP2110M12 | XCKP2111M12 | XCKP2102M12 | XCKP2121M12 | XCKP2127M12 | XCKP2128M12 |
| | | | | | | |
| 2-pole NC + NC snap action (XE2SP2141) | ZCP29M12 + ZCE10 | ZCP29M12 + ZCE11 | ZCP29M12 + ZCE02 | ZCP29M12 + ZCE21 | ZCP29M12 + ZCE27 | ZCP29M12 + ZCE28 |
| | | | | | | |
| Weight (kg) | 0.100 | 0.100 | 0.100 | 0.110 | 0.110 | 0.110 |
| Contact operation | closed open | | (A) (B) = cam displacement (P) = positive opening point | | NC contact with positive opening operation | |

(1) Form conforming to EN 50047, see page 1/136.
(2) Nitrile for indoor use.

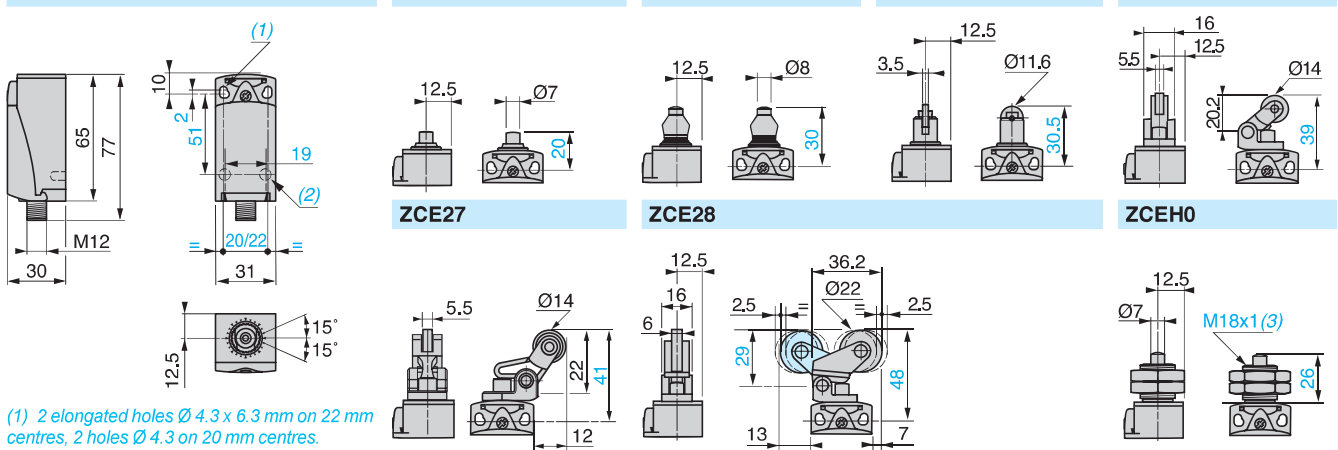
| Characteristics | | | |
|---|--|--------------|-------------|
| Switch actuation | On end | By 30° cam | |
| Type of actuation | | | |
| Maximum actuation speed | 0.5 m/s | 1 m/s | |
| Mechanical durability (in millions of operating cycles) | 15 | 10 | 15 |
| Minimum force or torque | For tripping: 15 N For positive opening: 45 N | 12 N 36 N | 6 N 18 N |
| Connection | M12 connector, U _i = 250 V, I _e = 3 A maximum, I _{th} = 3 A | | |

Connections




M12 connector




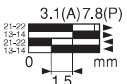
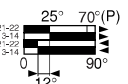
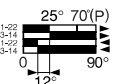
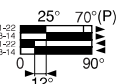
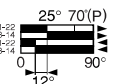
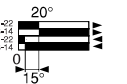




Dimensions








(1) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
(2) 2 x Ø 3 holes for support studs, depth 4 mm.
(3) Fixing nut thickness 3.5 mm.

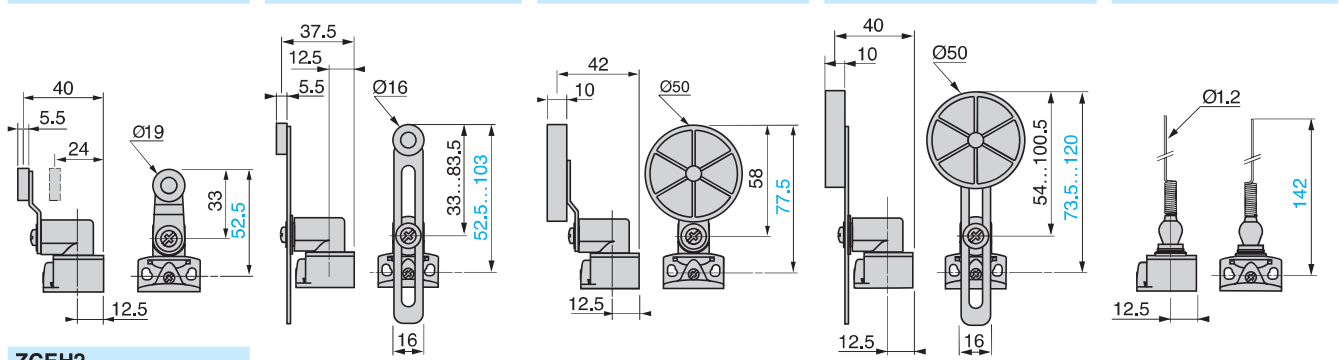
| Type of head | Plunger (fixing by the head) | | Rotary (fixing by the body) | | | | Multi-directional |
|------------------|---|---|-----------------------------|--|-------------------------------------|---|---|
| |  |  | Form A (1) | | | |  |
| Type of operator | M18 with metal end plunger | M18 with 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" (2) |

| References | | | | | | | | |
|---|--|--|--|---|---|---|---|---|
| 2-pole NC + NO snap action (XE2SP2151) |  | XCKP21H0M12 ⊖ | XCKP21H2M12 ⊖ | XCKP2118M12 ⊖ | XCKP2145M12 ⊖ | XCKP2139M12 ⊖ | XCKP2149M12 ⊖ | XCKP2106M12 ⊖ |
| |  |  |  |  |  |  |  |  |
| 2-pole NC + NC snap action (XE2S P2141) | | ZCP29M12 + ZCEH0 ⊖ | ZCP29M12 + ZCEH2 ⊖ | ZCP29M12 + ZCE01 + ZCY18 ⊖ | ZCP29M12 + ZCE01 + ZCY45 ⊖ | ZCP29M12 + ZCE01 + ZCY39 ⊖ | ZCP29M12 + ZCE01 + ZCY49 ⊖ | ZCP29M12 + ZCE06 ⊖ |
| Weight (kg) | | 0.140 | 0.140 | 0.140 | 0.150 | 0.155 | 0.160 | 0.090 |
| Contact operation | |  closed |  open | (A) = cam displacement | (P) = positive opening point | ⊖ NC contact with positive opening operation | | |

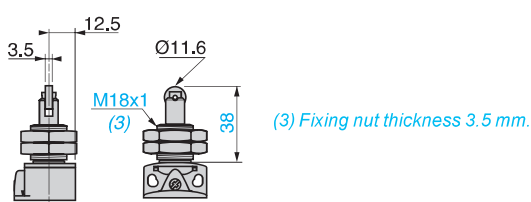
(1) Form conforming to EN 50047, see page 1/136.
(2) Value taken with actuation by moving part at 100 mm from the fixing.

| 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 (in millions of operating cycles) | 10 | | | | 5 |
| Minimum force or torque | For tripping | 15 N | 10 N | 0.1 N.m | 0.13 N.m |
| | For positive opening | 45 N | 36 N | 0.25 N.m | — |
| Connection | M12 connector, Ui = 250 V, Ie = 3 A maximum, Ith = 3 A | | | | |

| Dimensions | | | | |
|----------------------|----------------------|----------------------|----------------------|--------------|
| ZCE01 + ZCY18 | ZCE01 + ZCY45 | ZCE01 + ZCY39 | ZCE01 + ZCY49 | ZCE06 |



ZCEH2



Limit switches

OsiSense XC Standard

Compact design, metal, type XCKD
Complete switches with 1 cable entry

1

| 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 (2) | 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 of complete switches with 1 ISO M16 x 1.5 cable entry (3) | | | | | | | |
|--|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| | 2-pole NC + NO snap action (XE2S P2151) | XCKD2110P16 ⊖ | XCKD2111P16 ⊖ | XCKD2102P16 ⊖ | XCKD2121P16 ⊖ | XCKD2127P16 ⊖ | XCKD2128P16 ⊖ |
| | | | | | | | |
| | 2-pole NC + NO break before make, slow break (XE2N P2151) | XCKD2510P16 ⊖ | XCKD2511P16 ⊖ | XCKD2502P16 ⊖ | XCKD2521P16 ⊖ | XCKD2527P16 ⊖ | XCKD2528P16 ⊖ |
| | | | | | | | |
| | 2-pole NC + NC snap action (XE2S P2141) | ZCD29 + ZCDEP16 + ZCE10 ⊖ | ZCD29 + ZCDEP16 + ZCE11 ⊖ | ZCD29 + ZCDEP16 + ZCE02 ⊖ | ZCD29 + ZCDEP16 + ZCE21 ⊖ | ZCD29 + ZCDEP16 + ZCE27 ⊖ | ZCD29 + ZCDEP16 + ZCE28 ⊖ |
| | | | | | | | |
| | 2-pole NC + NC simultaneous, slow break (XE2N P2141) | ZCD27 + ZCDEP16 + ZCE10 ⊖ | ZCD27 + ZCDEP16 + ZCE11 ⊖ | ZCD27 + ZCDEP16 + ZCE02 ⊖ | ZCD27 + ZCDEP16 + ZCE21 ⊖ | ZCD27 + ZCDEP16 + ZCE27 ⊖ | ZCD27 + ZCDEP16 + ZCE28 ⊖ |
| | | | | | | | |
| | 3-pole NC + NC + NO snap action (XE3S P2141) | ZCD39 + ZCDEP16 + ZCE10 ⊖ | ZCD39 + ZCDEP16 + ZCE11 ⊖ | ZCD39 + ZCDEP16 + ZCE02 ⊖ | ZCD39 + ZCDEP16 + ZCE21 ⊖ | ZCD39 + ZCDEP16 + ZCE27 ⊖ | ZCD39 + ZCDEP16 + ZCE28 ⊖ |
| | | | | | | | |
| | 3-pole NC + NC + NO break before make, slow break (XE3N P2141) | ZCD37 + ZCDEP16 + ZCE10 ⊖ | ZCD37 + ZCDEP16 + ZCE11 ⊖ | ZCD37 + ZCDEP16 + ZCE02 ⊖ | ZCD37 + ZCDEP16 + ZCE21 ⊖ | ZCD37 + ZCDEP16 + ZCE27 ⊖ | ZCD37 + ZCDEP16 + ZCE28 ⊖ |
| | | | | | | | |
| Weight (kg) | | 0.180 | 0.180 | 0.185 | 0.195 | 0.190 | 0.195 |

References of complete switches with 1 entry for n° 11 cable gland

For an entry tapped for a n° 11 cable gland, replace P16 in the reference by G11. Example: XCKD2110P16 becomes XCKD2110G11 or ZCDEP16 becomes ZCDEG11.

Contact operation closed (A) (B) = cam displacement ⊖ NC contact with positive opening operation
 open (P) = positive opening point

| 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 For positive opening 45 N | | 12 N | 6 N | | | |
| Cable entry | 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 1/136.

(2) Nitrile for indoor use.

(3) Switches with gold contacts or eyelet type connections: please consult our Customer Care Centre.

Limit switches

OsiSense XC Standard

Compact design, metal, type XCKD
Complete switches with 1 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" (2) | |
| References of complete switches with 1 ISO M16 x 1.5 cable entry (3) | | | | | | | | |
| | 2-pole NC + NO snap action (XE2S P2151) | XCKD21H0P16 | XCKD21H2P16 | XCKD2118P16 | XCKD2145P16 | XCKD2139P16 | XCKD2149P16 | XCKD2106P16 |
| | 2-pole NC + NO break before make, slow break (XE2N P2151) | XCKD25H0P16 | XCKD25H2P16 | XCKD2518P16 | XCKD2545P16 | XCKD2539P16 | XCKD2549P16 | XCKD2506P16 |
| | 2-pole NC + NC snap action (XE2S P2141) | ZCD29 + ZCDEP16 + ZCEH0 | ZCD29 + ZCDEP16 + ZCEH2 | ZCD29 + ZCDEP16 + ZCE01 + ZCY18 | ZCD29 + ZCDEP16 + ZCE01 + ZCY45 | ZCD29 + ZCDEP16 + ZCE01 + ZCY39 | ZCD29 + ZCDEP16 + ZCE01 + ZCY49 | ZCD29 + ZCDEP16 + ZCE06 |
| | 2-pole NC + NC simultaneous, slow break (XE2N P2141) | ZCD27 + ZCDEP16 + ZCEH0 | ZCD27 + ZCDEP16 + ZCEH2 | ZCD27 + ZCDEP16 + ZCE01 + ZCY18 | ZCD27 + ZCDEP16 + ZCE01 + ZCY45 | ZCD27 + ZCDEP16 + ZCE01 + ZCY39 | ZCD27 + ZCDEP16 + ZCE01 + ZCY49 | ZCD27 + ZCDEP16 + ZCE06 |
| | 3-pole NC + NC + NO snap action (XE3S P2141) | ZCD39 + ZCDEP16 + ZCEH0 | ZCD39 + ZCDEP16 + ZCEH2 | ZCD39 + ZCDEP16 + ZCE01 + ZCY18 | ZCD39 + ZCDEP16 + ZCE01 + ZCY45 | ZCD39 + ZCDEP16 + ZCE01 + ZCY39 | ZCD39 + ZCDEP16 + ZCE01 + ZCY49 | ZCD39 + ZCDEP16 + ZCE06 |
| | 3-pole NC + NC + NO break before make, slow break (XE3N P2141) | ZCD37 + ZCDEP16 + ZCEH0 | ZCD37 + ZCDEP16 + ZCEH2 | ZCD37 + ZCDEP16 + ZCE01 + ZCY18 | ZCD37 + ZCDEP16 + ZCE01 + ZCY45 | ZCD37 + ZCDEP16 + ZCE01 + ZCY39 | ZCD37 + ZCDEP16 + ZCE01 + ZCY49 | ZCD37 + ZCDEP16 + ZCE06 |
| Weight (kg) | 0.220 | 0.220 | 0.225 | 0.235 | 0.235 | 0.245 | 0.175 | |

References of complete switches with 1 entry for n° 11 cable gland

For an entry tapped for a n° 11 cable gland, replace P16 in the reference by G11. Example: XCKD21H0P16 becomes XCKD21H0G11 or ZCDEP16 becomes ZCDEG11.

Contact operation closed (A) = cam displacement NC contact with positive opening operation
 open (P) = positive opening point

| 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 | 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 1/136.

(2) Value taken with actuation by moving part at 100 mm from the fixing.

(3) Switches with gold contacts or eyelet type connections: please consult our Customer Care Centre.

Limit switches

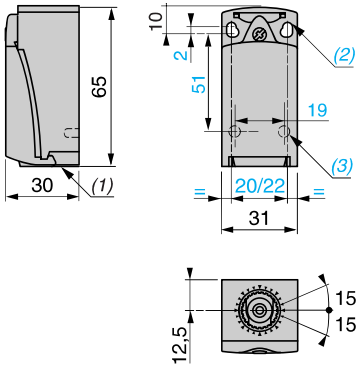
OsiSense XC Standard

Compact design, metal, type XCKD

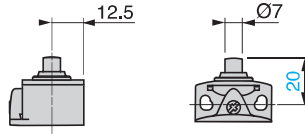
Complete switches with 1 cable entry

1

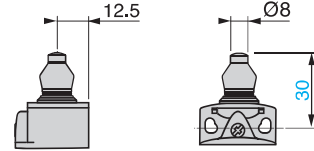
ZCD2● + ZCDEP16/ZCD3● + ZCDEP16



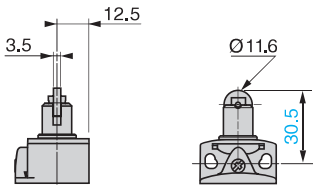
ZCE10



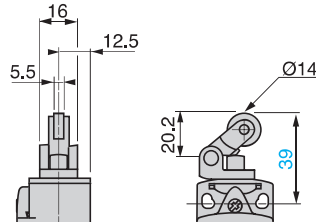
ZCE11



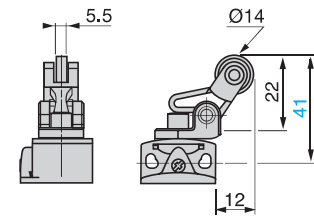
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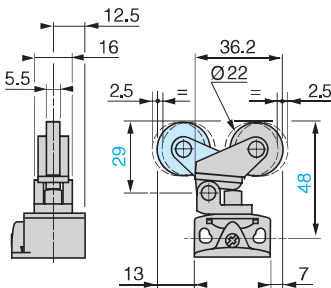
ZCE21



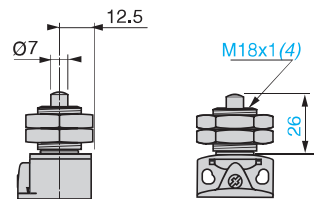
ZCE27



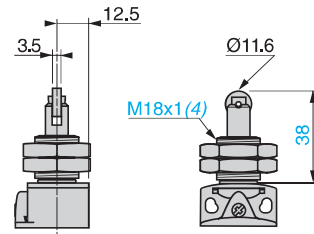
ZCE28



ZCEH0



ZCEH2



(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.

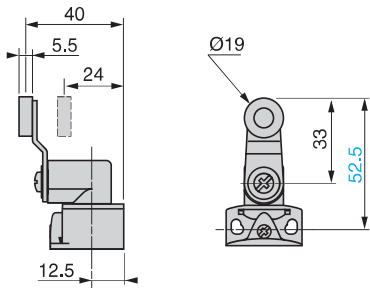
Limit switches

OsiSense XC Standard

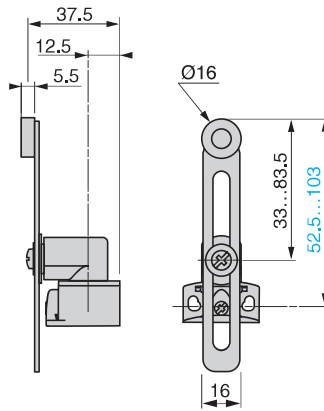
Compact design, metal, type XCKD

Complete switches with 1 cable entry

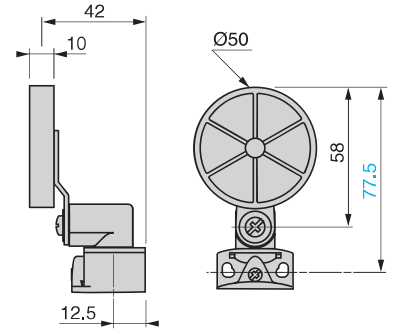
ZCE01 + ZCY18



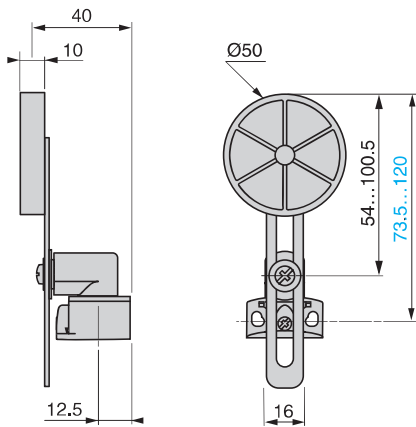
ZCE01 + ZCY45



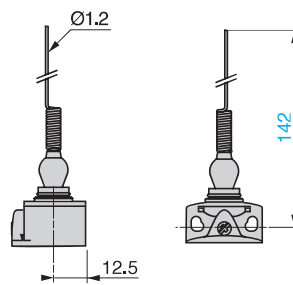
ZCE01 + ZCY39



ZCE01 + ZCY49



ZCE06



Limit switches

OsiSense XC Standard

Compact design, metal, type XCKD
M12 connector

1

| 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 (2) | 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-pole NC + NO snap action (XE2S P2151) | | XCKD2110M12 | XCKD2111M12 | XCKD2102M12 | XCKD2121M12 | XCKD2127M12 | XCKD2128M12 |
| 2-pole NC + NC snap action (XE2S P2141) | | ZCD29M12 + ZCE10 | ZCD29M12 + ZCE11 | ZCD29M12 + ZCE02 | ZCD29M12 + ZCE21 | ZCD29M12 + ZCE27 | ZCD29M12 + ZCE28 |
| Weight (kg) | | 0.190 | 0.190 | 0.195 | 0.205 | 0.200 | 0.205 |
| Contact operation | | | | | (A) (B) = cam displacement (P) = positive opening point | | |
| (1) Form conforming to EN 50047, see page 1/136. (2) Nitrile for indoor use. | | | | | | | |

| Characteristics | | On end | By 30° cam | | | |
|---|--|---------|------------|--|-------|--|
| Switch actuation | | | | | | |
| 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 | |
| Connection | M12 connector, $U_i = 60$ V, $I_e = 4$ A maximum, $I_{th} = 4$ A | | | | | |

| Connections | |
|---------------|---|
| M12 connector | |
| | XE2S P2151 XE2S P2141 1-2: NC 1-2: NC 3-4: NO 3-4: NO 5: \perp 5: \perp |

| Dimensions | | ZCE10 | ZCE11 | ZCE02 | ZCE21 |
|---|--|-------|-------|-------|-------|
| | | | | | |
| | | | | | |
| (1) 2 elongated holes $\varnothing 4.3 \times 6.3$ mm on 22 mm centres, 2 holes $\varnothing 4.3$ on 20 mm centres. (2) 2 x $\varnothing 3$ holes for support studs, depth 4 mm. (3) Fixing nut thickness 3.5 mm. | | | | | |

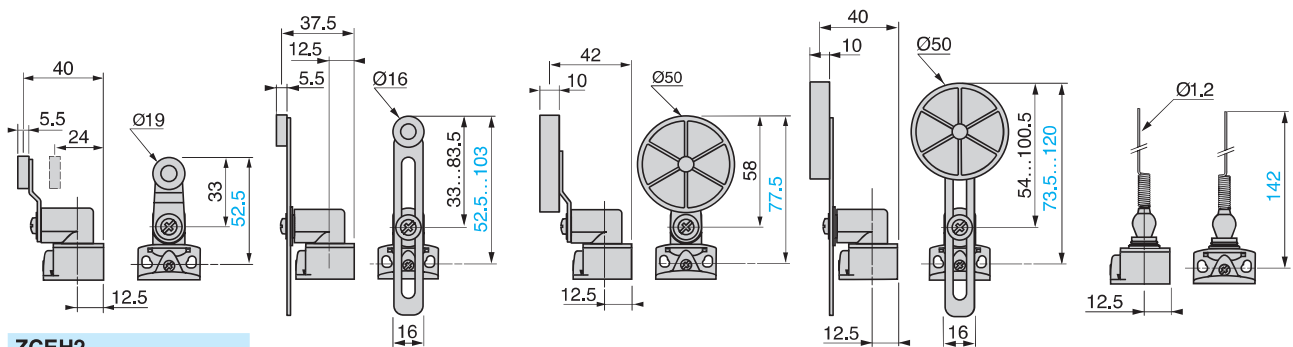
| Type of head | Plunger (fixing by the head) | | Rotary (fixing by the body) | | | | Multi-directional |
|------------------|------------------------------|-------------------------------|-----------------------------|--|-------------------------------------|---|---------------------|
| | | | Form A (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" (2) |

| References | XCKD21H0M12 | XCKD21H2M12 | XCKD2118M12 | XCKD2145M12 | XCKD2139M12 | XCKD2149M12 | XCKD2106M12 |
|---|-------------|-------------|--|-------------|-------------|-------------|-------------|
| 2-pole NC + NO snap action (XE2S P2151) | | | | | | | |
| 2-pole NC + NC snap action (XE2S P2141) | | | | | | | |
| Weight (kg) | 0.235 | 0.235 | 0.220 | 0.220 | 0.220 | 0.220 | 0.185 |
| Contact operation | | | (A) = cam displacement (P) = positive opening point | | | | |

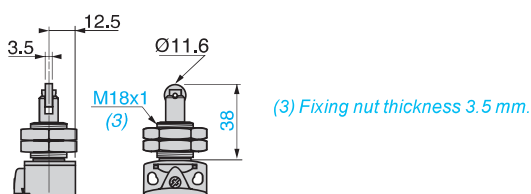
(1) Form conforming to EN 50047, see page 1/136.
(2) Value taken with actuation by moving part at 100 mm from the fixing.

| Characteristics | On end | By 30° cam | By any moving part | |
|---|---|--------------|---------------------|---------------|
| 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 (in millions of operating cycles) | 10 | | 5 | |
| 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 - |
| Connection | M12 connector, U _i = 60 V, I _e = 4 A maximum, I _{th} = 4 A | | | |

| Dimensions | ZCE01 + ZCY18 | ZCE01 + ZCY45 | ZCE01 + ZCY39 | ZCE01 + ZCY49 | ZCE06 |
|------------|---------------|---------------|---------------|---------------|-------|
|------------|---------------|---------------|---------------|---------------|-------|



ZCEH2



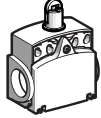
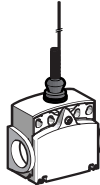



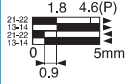
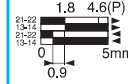
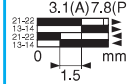
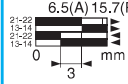
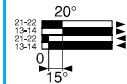

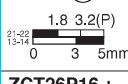
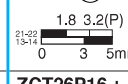

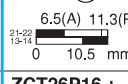
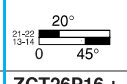

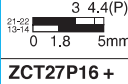
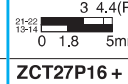
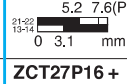
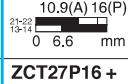
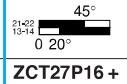





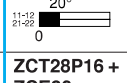

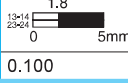
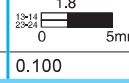
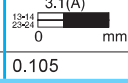
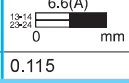
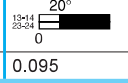
Limit switches

OsiSense XC Standard

Compact design, plastic, type XCKT
Complete switches with 2 cable entries




1





| Type of head | Plunger (fixing by the body) | | | Multi-directional |
|------------------|---|---|---|---|
| | Form B (1) | Form C (1) | Form E (1) | |
| |  |  |  |  |
| Type of operator | Metal end plunger | Metal end plunger with elastomer boot (2) | Steel roller plunger | Thermoplastic roller lever plunger, horizontal actuation in 1 direction |

| References of complete switches with 2 ISO M16 x 1.5 cable entries (4) | | | | | | |
|---|--|---|---|---|---|---|
|  | 2-pole NC + NO snap action (XE2SP3151) | XCKT2110P16 | XCKT2111P16 | XCKT2102P16 | XCKT2121P16 | XCKT2106P16 |
| | |  |  |  |  |  |
|  | 2-pole NC + NO break before make, slow break (XE2NP3151) | ZCT25P16 + ZCE10 | ZCT25P16 + ZCE11 | ZCT25P16 + ZCE02 | ZCT25P16 + ZCE21 | ZCT25P16 + ZCE06 |
| | |  |  |  |  |  |
|  | 2-pole NC + NO make before break, slow break (XE2NP3161) | ZCT26P16 + ZCE10 | ZCT26P16 + ZCE11 | ZCT26P16 + ZCE02 | ZCT26P16 + ZCE21 | ZCT26P16 + ZCE06 |
| | |  |  |  |  |  |
|  | 2-pole NC + NC simultaneous, slow break (XE2NP2141) | ZCT27P16 + ZCE10 | ZCT27P16 + ZCE11 | ZCT27P16 + ZCE02 | ZCT27P16 + ZCE21 | ZCT27P16 + ZCE06 |
| | |  |  |  |  |  |
|  | 2-pole NO + NO simultaneous, slow break (XE2NP3131) | ZCT28P16 + ZCE10 | ZCT28P16 + ZCE11 | ZCT28P16 + ZCE02 | ZCT28P16 + ZCE21 | ZCT28P16 + ZCE06 |
| | |  |  |  |  |  |
| Weight (kg) | | 0.100 | 0.100 | 0.105 | 0.115 | 0.095 |

References of complete switches with 2 entries for n° 11 cable gland

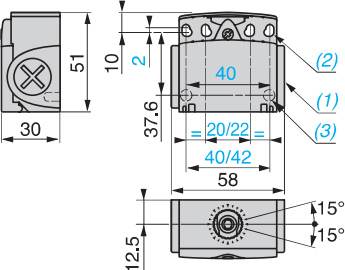
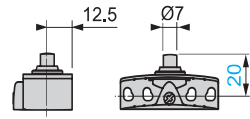
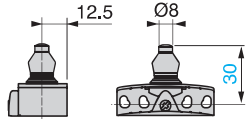
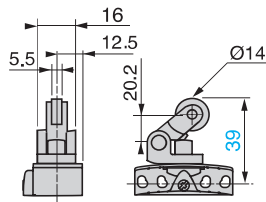
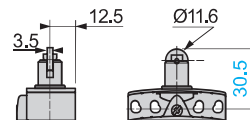
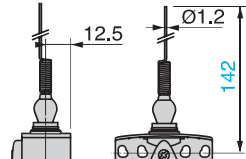
For entries tapped for n° 11 cable gland, replace P16 in the reference by G11. Example: XCKT2110P16 becomes XCKT2110G11.

Contact operation  closed (A) = cam displacement  NC contact with positive opening operation
 open (P) = positive opening point

| Characteristics | | | | |
|---|---|---|---|---|
| Switch actuation | On end | By 30° cam | By any moving part | |
| Type of actuation |  |  |  |  |
| Maximum actuation speed | 0.5 m/s | | 1 m/s | 1 m/s (any direction) |
| Mechanical durability (in millions of operating cycles) | 15 | 10 | 15 | 5 |
| Minimum force or torque | For tripping: 15 N For positive opening: 45 N | 12 N 36 N | 6 N 18 N | 0.3 N.m |
| Cable entry (3) | 2 entries tapped M16 x 1.5 for ISO cable gland Clamping capacity 4 to 8 mm (1 entry fitted with blanking plug) | | | |

(1) Form conforming to EN 50047, see page 1/136. (2) Nitrile for indoor use.

(3) Value taken with actuation by moving part at 100 mm from the fixing. (4) Switches with gold contacts or eyelet type connections: please consult our Customer Care Centre.

| Dimensions | | | | |
|---|---|--|---|--|
| ZCT2●P16 | ZCE10 | ZCE11 | ZCE21 | |
|  |  |  |  | |
| | ZCE02 | ZCE06 | | |
| |  |  | | |

(1) Tapped entry for ISO M16 x 1.5 or Pg 11 cable gland.
 (2) 4 elongated holes $\varnothing 4.3 \times 6.3$ mm on 22/42 mm ctrs, 4 holes $\varnothing 4.3$ on 20/40 mm ctrs.
 (3) 2 x $\varnothing 3$ holes for support studs, depth 4 mm.

Limit switches

OsiSense XC Standard

Compact design, plastic, type XCKT
Complete switches with 2 cable entries

| Type of head | Plunger (fixing by the head) | | Rotary (fixing by the body) 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 |

| References of complete switches with 2 ISO M16 x 1.5 cable entries (2) | | | | | | |
|--|--|----------------------|----------------------|------------------------------|------------------------------|------------------------------|
| | 2-pole NC + NO snap action (XE2SP3151) | XCKT21H0P16 | XCKT21H2P16 | XCKT2118P16 | XCKT2145P16 | XCKT2139P16 |
| | 2-pole NC + NO break before make, slow break (XE2NP3151) | ZCT25P16 + ZCEH0 | ZCT25P16 + ZCEH2 | ZCT25P16 + ZCE01 + ZCY18 | ZCT25P16 + ZCE01 + ZCY45 | ZCT25P16 + ZCE01 + ZCY39 |
| | 2-pole NO + NC make before break, slow break (XE2NP3161) | ZCT26P16 + ZCEH0 | ZCT26P16 + ZCEH2 | ZCT26P16 + ZCE01 + ZCY18 | ZCT26P16 + ZCE01 + ZCY45 | ZCT26P16 + ZCE01 + ZCY39 |
| | 2-pole NC + NC simultaneous, slow break (XE2NP2141) | ZCT27P16 + ZCEH0 | ZCT27P16 + ZCEH2 | ZCT27P16 + ZCE01 + ZCY18 | ZCT27P16 + ZCE01 + ZCY45 | ZCT27P16 + ZCE01 + ZCY39 |
| | 2-pole NO + NO simultaneous, slow break (XE2NP3131) | ZCT28P16 + ZCEH0 | ZCT28P16 + ZCEH2 | ZCT28P16 + ZCE01 + ZCY18 | ZCT28P16 + ZCE01 + ZCY45 | ZCT28P16 + ZCE01 + ZCY39 |
| Weight (kg) | 0.145 | 0.145 | 0.145 | 0.155 | 0.160 | |

| References of complete switches with 2 entries for n° 11 cable gland | | | | | | |
|--|--------|------------------------------|--|--|--|--|
| For entries tapped for n° 11 cable gland, replace P16 in the reference by G11. Example: XCKT21H0P16 becomes XCKT21H0G11. | | | | | | |
| Contact operation | closed | (A) = cam displacement | | NC contact with positive opening operation | | |
| | open | (P) = positive opening point | | | | |

| Characteristics | | | | |
|-------------------------|---|------------|------|----------|
| Switch actuation | On end | By 30° cam | | |
| Type of actuation | | | | |
| Maximum actuation speed | 0.5 m/s | 1.5 m/s | | |
| Mechanical durability | 10 million operating cycles | | | |
| Minimum force or torque | For tripping | 15 N | 10 N | 0.1 N.m |
| | For positive opening | 45 N | 36 N | 0.25 N.m |
| Cable entry (3) | 2 entries tapped M16 x 1.5 for ISO cable gland Clamping capacity 4 to 8 mm (1 entry fitted with blanking plug) | | | |

(1) Form conforming to EN 50047, see page 1/136.

(2) Switches with gold contacts or eyelet type connections: please consult our Customer Care Centre.

| Dimensions | ZCE01 + ZCY18 | ZCE01 + ZCY39 | ZCE01 + ZCY45 |
|------------|---------------|---------------|---------------|
| ZCEH0 | | | |
| ZCEH2 | | | |

(4) Fixing nut thickness 3.5 mm.

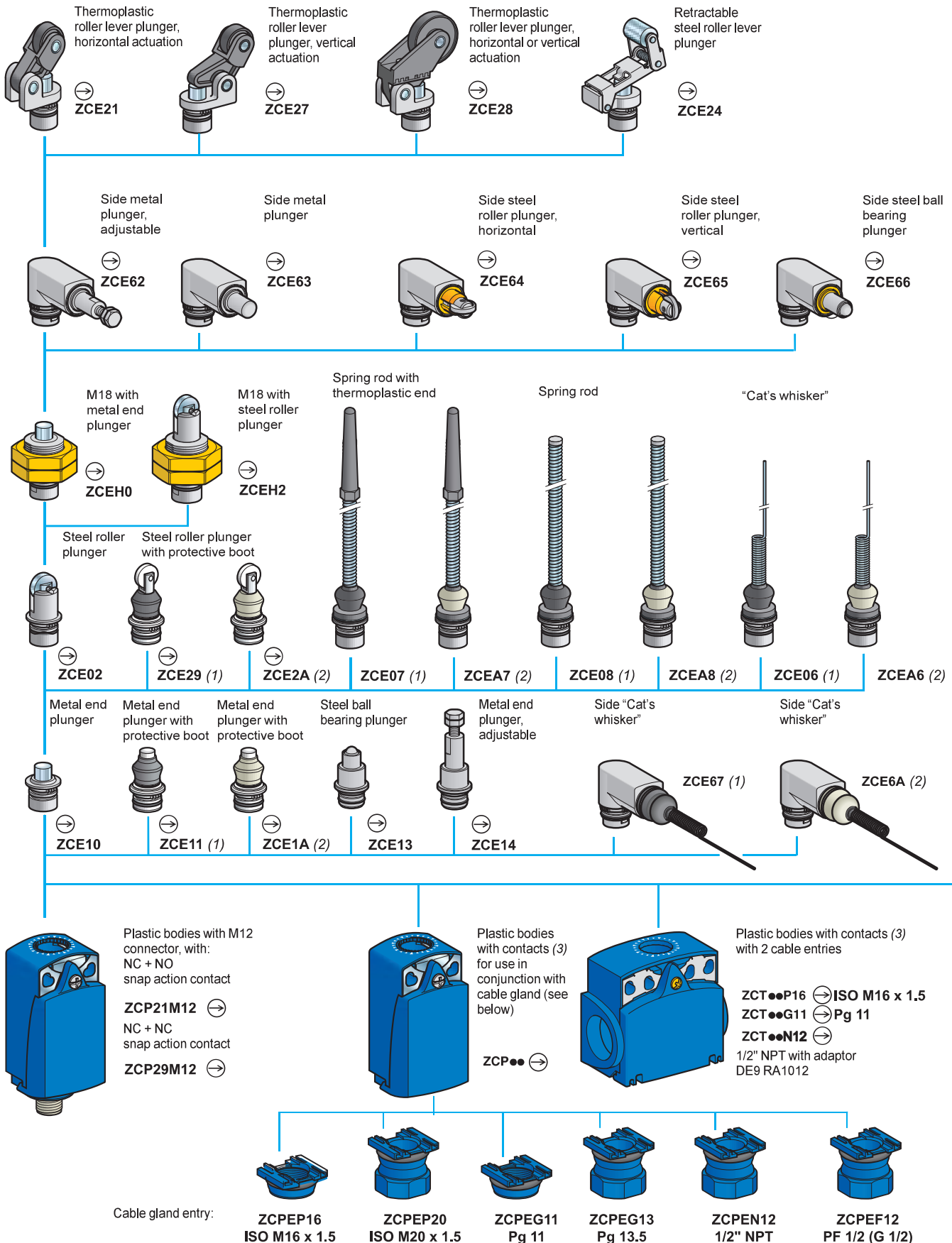
Limit switches

OsiSense XC Standard

Compact design, types XCKD, XCKP and XCKT

Variable composition

1



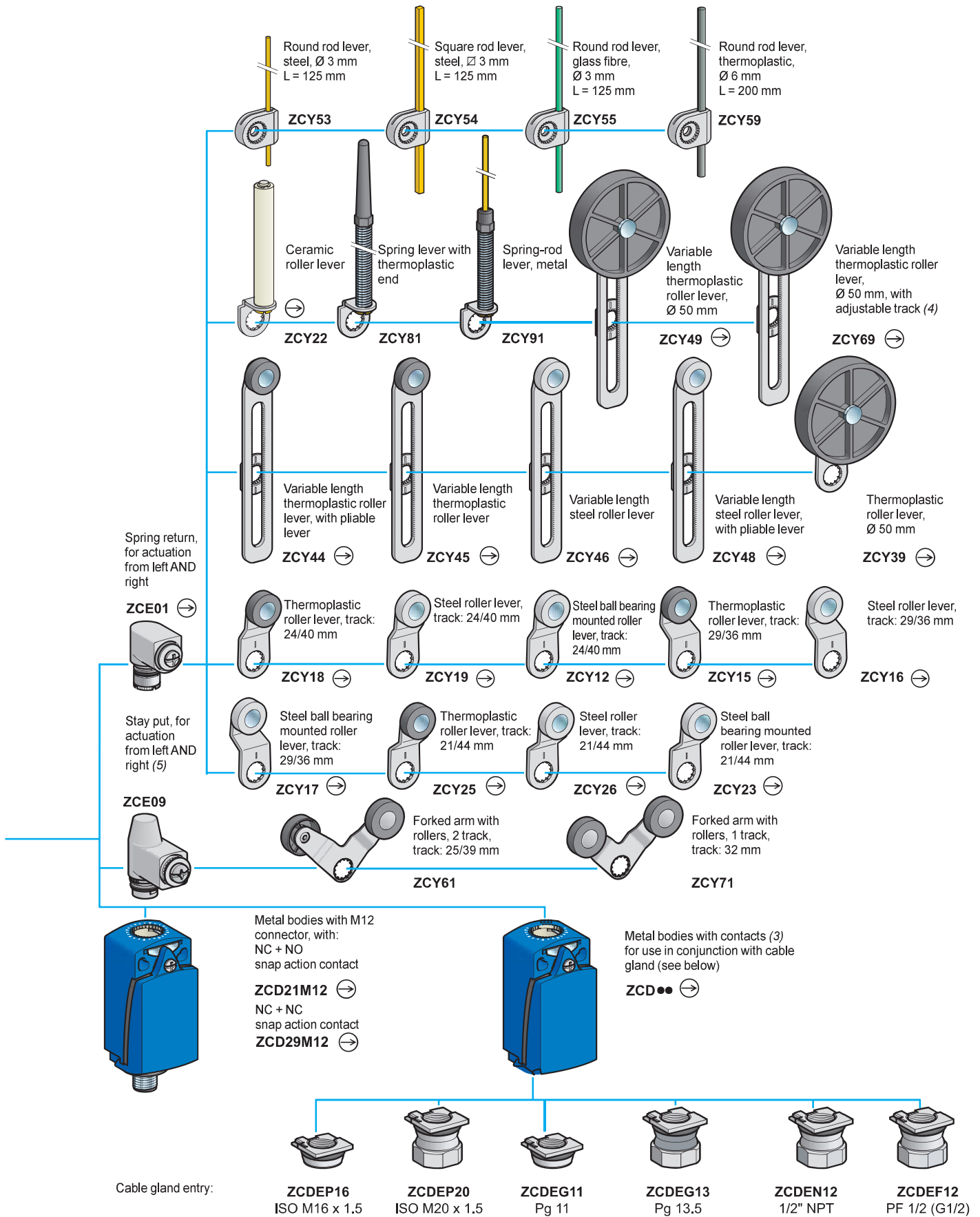
(1) Nitrile boot for indoor use.
 (2) Silicone boot for outdoor use.
 (3) For further information, see page 1/48.

Limit switches

OsiSense XC Standard

Compact design, types XCKD, XCKP and XCKT

Variable composition



(4) Variable length and adjustable track by lever deformation.

(5) Suitable with bodies: ZCD21, ZCP21, ZCT21, ZCD29, ZCP29, ZCD31, ZCP31, ZCD39, ZCP39, ZCD2●M12, ZCP2●M12

Limit switches

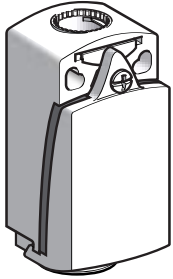
OsiSense XC Standard

Compact design, metal, type type XCKD or plastic, type XCKP

Adaptable sub-assemblies: bodies with contacts

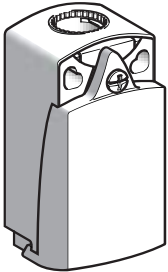
1

520710

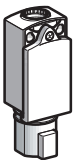


ZCD●●

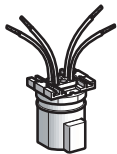
520711



ZCP●●



ZCP21D44



ZCPED44

Bodies with contacts, types XCKD and XCKP (1)

| Type of contact | Positive operation (2) | Scheme | Body material | Reference | Weight kg |
|--|------------------------|--------|---------------|-----------|-----------|
| 2-pole | | | | | |
| NC + NO snap action (XE2SP2151) | ⊖ | | Metal | ZCD21 | 0.140 |
| | | | Plastic | ZCP21 | 0.070 |
| NC + NC snap action (XE2SP2141) | ⊕ | | Metal | ZCD29 | 0.140 |
| | | | Plastic | ZCP29 | 0.070 |
| NC + NO break before make, slow break (XE2NP2151) | ⊖ | | Metal | ZCD25 | 0.140 |
| | | | Plastic | ZCP25 | 0.070 |
| NO + NC make before break, slow break (XE2NP2161) | ⊖ | | Metal | ZCD26 | 0.140 |
| | | | Plastic | ZCP26 | 0.070 |
| NC + NC simultaneous, slow break (XE2NP2141) | ⊕ | | Metal | ZCD27 | 0.140 |
| | | | Plastic | ZCP27 | 0.070 |
| NO + NO simultaneous, slow break (XE2NP2131) | - | | Metal | ZCD28 | 0.140 |
| | | | Plastic | ZCP28 | 0.070 |
| 3-pole | | | | | |
| NC + NO + NO snap action (XE3SP2151) | ⊖ | | Metal | ZCD31 | 0.140 |
| | | | Plastic | ZCP31 | 0.070 |
| NC + NC + NO snap action (XE3SP2141) | ⊕ | | Metal | ZCD39 | 0.140 |
| | | | Plastic | ZCP39 | 0.070 |
| NC + NC + NO break before make, slow break (XE3NP2141) | ⊖ | | Metal | ZCD37 | 0.140 |
| | | | Plastic | ZCP37 | 0.070 |
| NC + NO + NO break before make, slow break (XE3NP2151) | ⊖ | | Metal | ZCD35 | 0.140 |
| | | | Plastic | ZCP35 | 0.070 |

Components for connection using DEUTSCH connector

Bodies with contacts for DEUTSCH connector

| Type of contact | Positive operation (2) | Scheme | Cable entry | Reference | Weight kg |
|---------------------------------|------------------------|--------|-------------|-----------|-----------|
| 2-pole | | | | | |
| NC + NO snap action (XE2SP2151) | ⊖ | | Connector | ZCP21D44 | 0.065 |
| DEUTSCH male connector DT04-4P | | | | ZCPED44 | 0.015 |

(1) Bodies with gold contacts or eyelet type connections: please consult your Regional Sales Office.

(2) ⊖: bodies with contacts assuring positive opening operation.

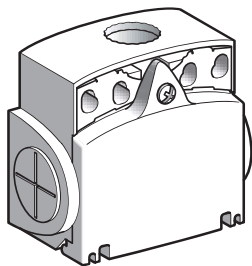
Limit switches

OsiSense XC Standard

Compact design, plastic, type XCKT

Adaptable sub-assemblies: bodies with contacts

561 390

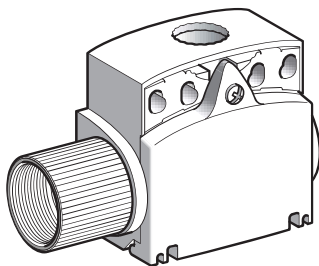


ZCT...•••

Bodies with contacts, type XCKT plastic, 2 cable entries

| Type of contact | Positive operation (1) | Scheme | Cable entries | Reference | Weight kg |
|--|------------------------|--------|---------------|-----------|-----------|
| 2-pole | | | | | |
| NC + NO snap action (XE2SP3151) | ⊖ | | ISO M16 x 1.5 | ZCT21P16 | 0,085 |
| | | | Pg 11 | ZCT21G11 | 0,085 |
| NC + NO break before make, slow break (XE2NP3151) | ⊖ | | ISO M16 x 1.5 | ZCT25P16 | 0,085 |
| | | | Pg 11 | ZCT25G11 | 0,085 |
| NC + NC simultaneous, slow break (XE2NP3141) | ⊖ | | ISO M16 x 1.5 | ZCT27P16 | 0,085 |
| | | | Pg 11 | ZCT27G11 | 0,085 |
| NO + NO simultaneous, slow break (XE2NP3131) | - | | ISO M16 x 1.5 | ZCT28P16 | 0,085 |
| | | | Pg 11 | ZCT28G11 | 0,085 |
| NO + NC make before break, slow break (XE2NP3161) | ⊖ | | ISO M16 x 1.5 | ZCT26P16 | 0,085 |
| | | | Pg 11 | ZCT26G11 | 0,085 |

561 387



ZCT...N12

Bodies with contacts, type XCKT plastic, 2 cable entries with 1/2" NPT adaptor

| Type of contact | Positive operation (1) | Scheme | Reference | Weight kg |
|--|------------------------|--------|-----------|-----------|
| 2-pole | | | | |
| NC + NO snap action (XE2SP3151) | ⊖ | | ZCT21N12 | 0,130 |
| | | | ZCT25N12 | 0,130 |
| NC + NO break before make, slow break (XE2NP3151) | ⊖ | | ZCT27N12 | 0,130 |
| | | | ZCT28N12 | 0,130 |
| NC + NC simultaneous, slow break (XE2NP3141) | ⊖ | | ZCT26N12 | 0,130 |
| | | | ZCT26N12 | 0,130 |
| NO + NO simultaneous, slow break (XE2NP3131) | - | | ZCT26N12 | 0,130 |
| | | | ZCT26N12 | 0,130 |
| NO + NC make before break, slow break (XE2NP3161) | ⊖ | | ZCT26N12 | 0,130 |
| | | | ZCT26N12 | 0,130 |

(1) ⊖: bodies with contact assuring positive opening operation.

Limit switches

OsiSense XC Standard

Compact design, metal, type XCKD or plastic, types XCKP and XCKT

Adaptable sub-assemblies: bodies with contacts

1

561427



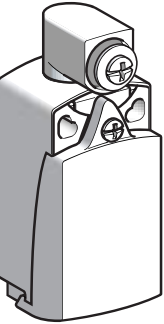
ZCE05

561352



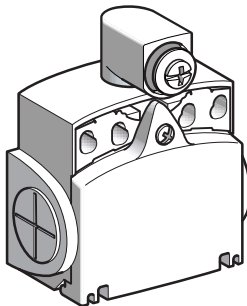
DE9RA1012

561386



XCK200100

561389



XCKT200100

Accessories

| Description | Suitable levers for use with head | Unit reference | Weight kg |
|---|---|----------------|-----------|
| Rotary head, without lever, spring return, for actuation from left AND right or left OR right (1) | ZCY12, ZCY15, ZCY16, ZCY17, ZCY18, ZCY19, ZCY22, ZCY23, ZCY25, ZCY26, ZCY39, ZCY53, ZCY54, ZCY55, ZCY81 | ZCE05 | 0.045 |
| Tap-off terminal for XCKT | Sold in lots of 10 | XALZ09 | 0.010 |
| Spacer for angular positioning of heads with adjustable levers, for values other than - 90°, 0° and 90° | – | XCMZ07 | 0.002 |
| Adaptor for 1/2" NPT conduit (male Pg 11 / female 1/2" NPT) | Sold in lots of 10 | DE9 RA1012 | 0.050 |

Bodies with contacts, type XCKP plastic, with rotary head (without operating lever)

| Type of contact | Scheme | Positive operation (2) | Cable entry | Reference | Weight kg |
|---|--------|------------------------|---------------|-------------|-----------|
| 2-pole | | | | | |
| NC + NO snap action (XE2SP2151) | | | ISO M16 x 1.5 | XCKP2101P16 | 0.115 |
| | | | Pg 11 | XCKP2101G11 | 0.115 |
| | | | M12 connector | XCKP2101M12 | 0.125 |
| NC + NO break before make, slow break (XE2NP2151) | | | ISO M16 x 1.5 | XCKP2501P16 | 0.115 |
| | | | Pg 11 | XCKP2501G11 | 0.115 |

Bodies with contacts, type XCKD metal, with rotary head (without operating lever)

| Type of contact | Scheme | Positive operation (2) | Cable entry | Reference | Weight kg |
|---|--------|------------------------|---------------|-------------|-----------|
| 2-pole | | | | | |
| NC + NO snap action (XE2SP2151) | | | ISO M16 x 1.5 | XCKD2101P16 | 0.185 |
| | | | Pg 11 | XCKD2101G11 | 0.185 |
| | | | M12 connector | XCKD2101M12 | 0.195 |
| NC + NO break before make, slow break (XE2NP2151) | | | ISO M16 x 1.5 | XCKD2501P16 | 0.185 |
| | | | Pg 11 | XCKD2501G11 | 0.185 |

Bodies with contacts, type XCKT plastic, with rotary head (without operating lever)

| Type of contact | Scheme | Positive operation (2) | Cable entry | Reference | Weight kg |
|---|--------|------------------------|---------------|-------------|-----------|
| 2-pole | | | | | |
| NC + NO snap action (XE2SP3151) | | | ISO M16 x 1.5 | XCKT2101P16 | 0.130 |
| | | | Pg 11 | XCKT2101G11 | 0.130 |
| NC + NO break before make, slow break (XE2NP3151) | | | ISO M16 x 1.5 | XCKT2501P16 | 0.130 |
| | | | Pg 11 | XCKT2501G11 | 0.130 |

(1) For programming see page 1/130.

(2) : bodies with contact assuring positive opening operation.

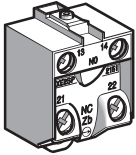
Limit switches

OsiSense XC Standard

Compact design, metal, type XCKD or plastic, types XCKP and XCKT

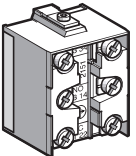
Adaptable sub-assemblies: contact blocks

561393



XE2●●21●●

561394



XE3●●21●●

Contact blocks with screw clamp terminals for XCKD and XCKP

| Type of contact | Positive operation (1) | Scheme | Reference for standard contacts | Weight kg |
|--|------------------------|--------|---------------------------------|-----------|
| 2-pole | | | | |
| NC + NO snap action | ⊕ | | XE2SP2151 | 0.020 |
| NC + NC simultaneous, snap action | ⊕ | | XE2SP2141 | 0.020 |
| NC + NO break before make, slow break | ⊕ | | XE2NP2151 | 0.020 |
| NO + NC make before break, slow break | ⊕ | | XE2NP2161 | 0.020 |
| NC + NC simultaneous, slow break | ⊕ | | XE2NP2141 | 0.020 |
| NO + NO simultaneous, slow break | - | | XE2NP2131 | 0.020 |
| 3-pole | | | | |
| NC + NO + NO snap action | ⊕ | | XE3SP2151 | 0.035 |
| NC + NC + NO snap action | ⊕ | | XE3SP2141 | 0.035 |
| NC + NC + NO break before make, slow break | ⊕ | | XE3NP2141 | 0.035 |
| NC + NO + NO break before make, slow break | ⊕ | | XE3NP2151 | 0.035 |

Contact blocks with screw clamp terminals for XCKT

| Type of contact | Positive operation (1) | Scheme | Reference for standard contacts | Weight kg |
|---------------------------------------|------------------------|--------|---------------------------------|-----------|
| 2-pole | | | | |
| NC + NO snap action | ⊕ | | XE2SP3151 | 0.015 |
| NC + NO break before make, slow break | ⊕ | | XE2NP3151 | 0.015 |
| NO + NC make before break, slow break | ⊕ | | XE2NP3161 | 0.015 |
| NC + NC simultaneous, slow break | ⊕ | | XE2NP3141 | 0.015 |
| NO + NO simultaneous, slow break | - | | XE2NP3131 | 0.015 |

(1) ⊕: contact blocks assuring positive opening operation.

Limit switches

OsiSense XC Standard

Compact design, plastic, with reset,
types XCPR and XCTR

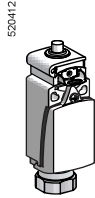
Compact design, metal, with reset, type XCDR

1

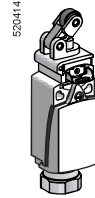
■ **XCPR, XCDR**
with 1 cable entry

□ With head for linear movement (plunger). Fixing by the body

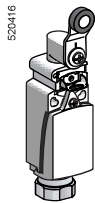
XCDR



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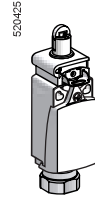


XCDR



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XCPR

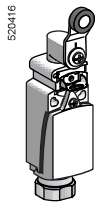


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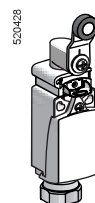
□ With head for rotary movement (lever) or multi-directional. Fixing by the body

XCDR



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XCPR



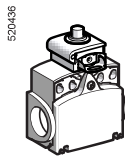
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■ **XCTR**

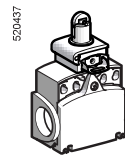
with 2 cable entries
Tripping/resetting points and fixing centres
conform to CENELEC 50047

□ With head for linear movement (plunger). Fixing by the body

XCTR

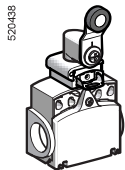


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□ With head for rotary movement (lever) or multi-directional. Fixing by the body

XCTR



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