

## Limit switches

XC Standard range

Compact design, plastic, XCKP and XCKT

Compact design, metal, XCKD

### ■ XCKP, XCKD

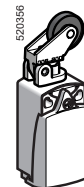
with 1 cable entry

Conforming to CENELEC EN 50047

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

XCKD

XCKP



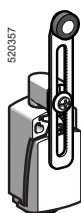
Pages 80 and 84

Pages 74 and 78

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

XCKD

XCKP



Pages 81 and 85

Pages 75 and 79

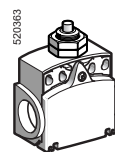
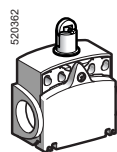
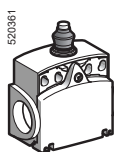
### ■ XCKT

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

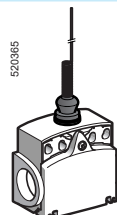
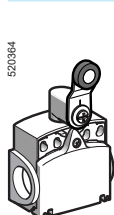
XCKT



Page 86

□ 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 (- 40...+ 70 °C with ZCE106, ZCE026 and ZCE016 heads)
	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 IEC 62262 for XCKP and XCKT, IK 06 conforming to IEC 62262 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

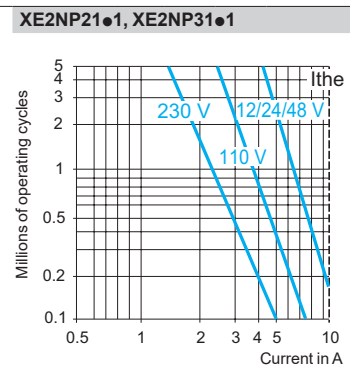
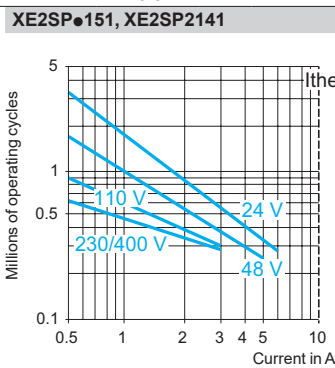
# Limit switches

## XC Standard range

Compact design, plastic, XCKP and XCKT  
Compact design, metal, XCKD

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 <sup>2</sup> , max: 2 x 1.5 mm <sup>2</sup>
	XE2NP21●1 and XE2NP31●1	Clamping capacity, min: 1 x 0.5 mm <sup>2</sup> , max: 2 x 2.5 mm <sup>2</sup>
	XE3NP and XE3SP	Clamping capacity, min: 1 x 0.34 mm <sup>2</sup> , max: 1 x 1 mm <sup>2</sup> or 2 x 0.75 mm <sup>2</sup>
Minimum actuation speed (for head with end plunger)		<b>XE2SP●151, XE2SP2141 and XE3SP:</b> 0.01 m/minute
		<b>XE2NP21●1, XE2NP31●1 and XE3NP:</b> 6 m/minute
Electrical durability		<ul style="list-style-type: none"> <li>■ Conforming to IEC 60947-5-1 Appendix C</li> <li>■ Utilisation categories AC-15 and DC-13</li> <li>■ Maximum operating rate: 3600 operating cycles/hour</li> <li>■ Load factor: 0.5</li> </ul>

AC supply  
50/60 Hz ~  
mm. inductive circuit



DC supply ---

**Power broken in W for 5 million operating cycles.**

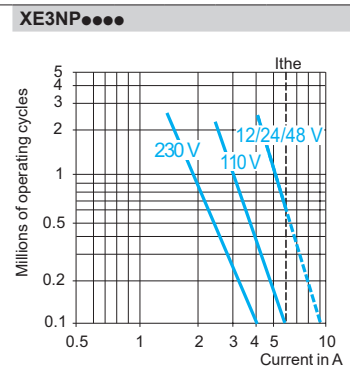
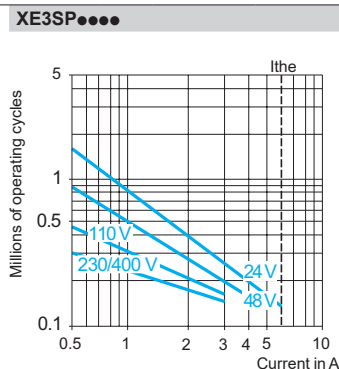
Voltage V	24	48	120
mm. W	10	7	4

**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

## XC Standard range

Compact design, metal, XCKD  
Complete switches with 1 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 (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 (XE2SP2151)	XCKD2110P16 ⊖	XCKD2111P16 ⊖	XCKD2102P16 ⊖	XCKD2121P16 ⊖	XCKD2127P16 ⊖	XCKD2128P16 ⊖
	2-pole NC + NO break before make, slow break (XE2NP2151)	XCKD2510P16 ⊖	XCKD2511P16 ⊖	XCKD2502P16 ⊖	XCKD2521P16 ⊖	XCKD2527P16 ⊖	XCKD2528P16 ⊖
	2-pole NC + NC snap action (XE2SP2141)	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 (XE2NP2141)	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 (XE3SP2141)	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 (XE3NP2141)	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	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 open	(A) (B) = cam displacement (P) = positive opening point	NC contact with positive opening operation
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### 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	
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 24.

(2) Nitrile for indoor use.

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

# Limit switches

XC Standard range  
Compact design, metal, 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)							
	XCKD21H0P16 	XCKD21H2P16 	XCKD2118P16 	XCKD2145P16 	XCKD2139P16 	XCKD2149P16 	XCKD2106P16 
	XCKD25H0P16 	XCKD25H2P16 	XCKD2518P16 	XCKD2545P16 	XCKD2539P16 	XCKD2549P16 	XCKD2506P16 
	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 
	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 
	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 
	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 open	(A) = cam displacement (P) = positive opening point	NC 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
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 24.  
 (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.

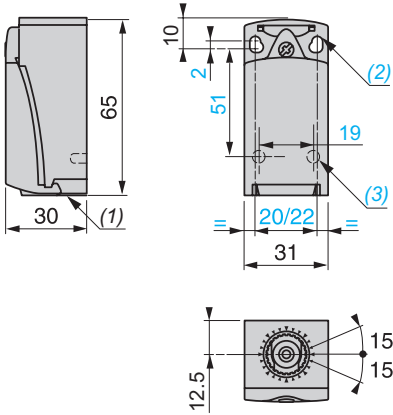
## Limit switches

XC Standard range

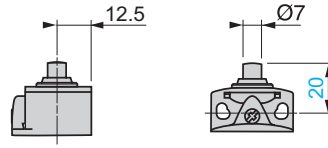
Compact design, metal, XCKD

Complete switches with 1 cable entry

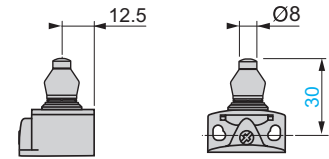
ZCD2● + ZCDEP16/ZCD3● + ZCDEP16



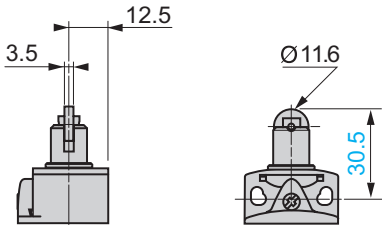
ZCE10



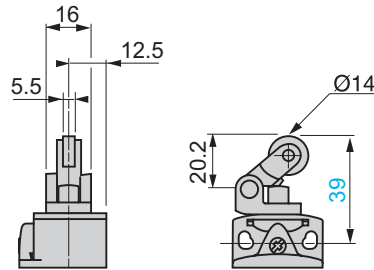
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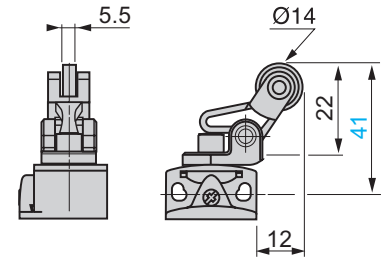
ZCE02



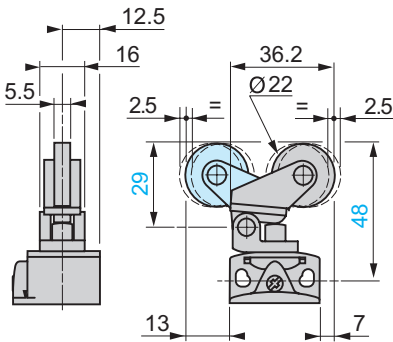
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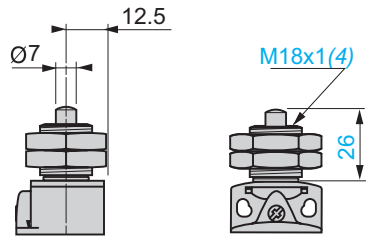
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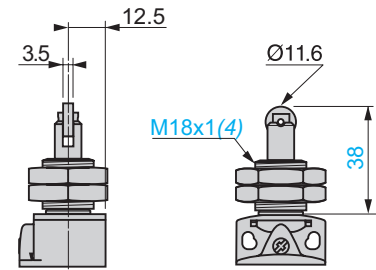
ZCE28



ZCEH0



ZCEH2



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

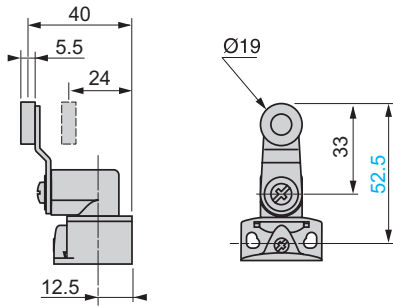
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XC Standard range

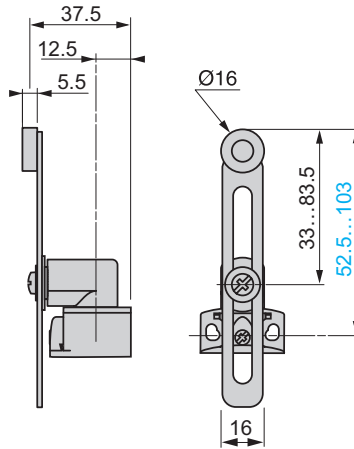
Compact design, metal, XCKD

Complete switches with 1 cable entry

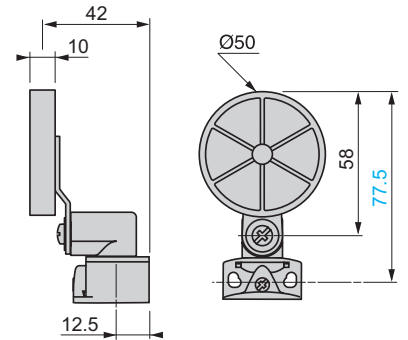
ZCE01 + ZCY18



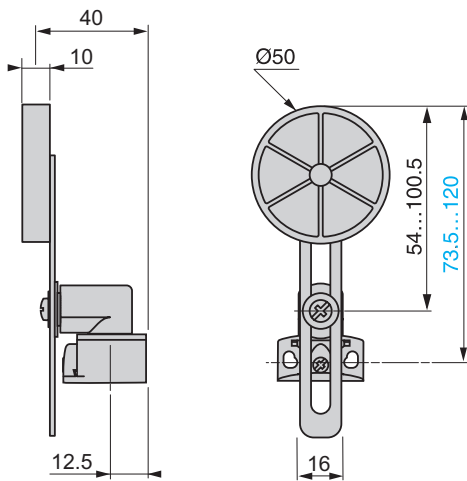
ZCE01 + ZCY45



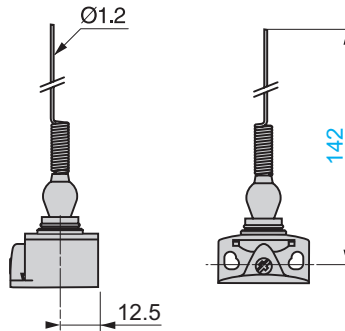
ZCE01 + ZCY39



ZCE01 + ZCY49










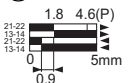
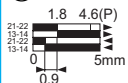
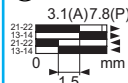
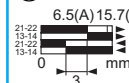
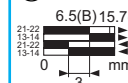
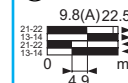

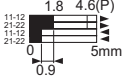
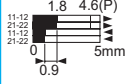
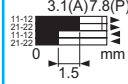
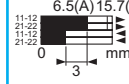
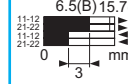
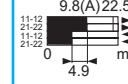



ZCE06


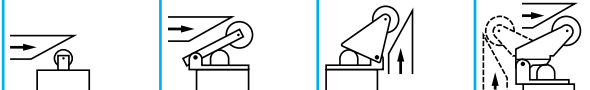



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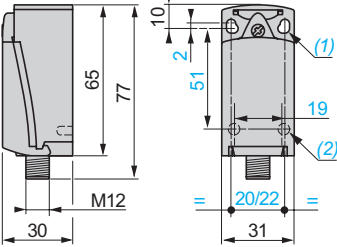
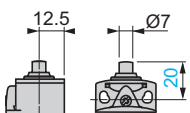
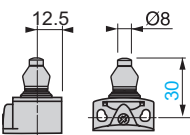
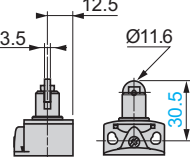
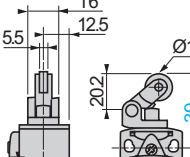
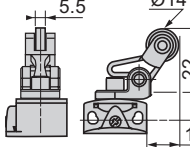
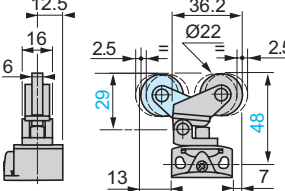
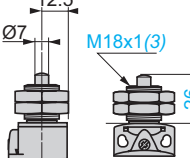
XC Standard range  
Compact design, metal, XCKD  
M12 connector

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

References							
2-pole NC + NO snap action (XE2SP2151)		XCKD2110M12 	XCKD2111M12 	XCKD2102M12 	XCKD2121M12 	XCKD2127M12 	XCKD2128M12 
2-pole NC + NC snap action (XE2SP2141)		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	 closed  open			(A) (B) = cam displacement (P) = positive opening point	 NC contact with positive opening operation		
(1) Form conforming to EN 50047, see page 24.							
(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	<table border="1"> <tr> <td>For tripping</td> <td>15 N</td> <td>12 N</td> <td>6 N</td> </tr> <tr> <td>For positive opening</td> <td>45 N</td> <td>36 N</td> <td>18 N</td> </tr> </table>	For tripping	15 N	12 N	6 N	For positive opening	45 N	36 N	18 N
For tripping	15 N	12 N	6 N						
For positive opening	45 N	36 N	18 N						
Connection	M12 connector, U <sub>i</sub> = 60 V, I <sub>e</sub> = 4 A maximum, l <sub>th</sub> = 4 A								

Connections									
M12 connector									
	<table border="1"> <tr> <td>XE2SP2151</td> <td>XE2SP2141</td> </tr> <tr> <td>1-2: NC</td> <td>1-2: NC</td> </tr> <tr> <td>3-4: NO</td> <td>3-4: NO</td> </tr> <tr> <td>5: <math>\perp</math></td> <td>5: <math>\perp</math></td> </tr> </table>	XE2SP2151	XE2SP2141	1-2: NC	1-2: NC	3-4: NO	3-4: NO	5: $\perp$	5: $\perp$
XE2SP2151	XE2SP2141								
1-2: NC	1-2: NC								
3-4: NO	3-4: NO								
5: $\perp$	5: $\perp$								

Dimensions	
ZCD2●M12	ZCE10    ZCE11    ZCE02    ZCE21
	
	
	
	
	ZCE27    ZCE28    ZCEH0
	
	
	
<p>(1) 2 elongated holes <math>\varnothing 4.3 \times 6.3</math> mm on 22 mm centres, 2 holes <math>\varnothing 4.3</math> on 20 mm centres.            (2) 2 x <math>\varnothing 3</math> holes for support studs, depth 4 mm.            (3) Fixing nut thickness 3.5 mm.</p>	



# Limit switches

XC Standard range  
Compact design, metal, XCKD  
M12 connector

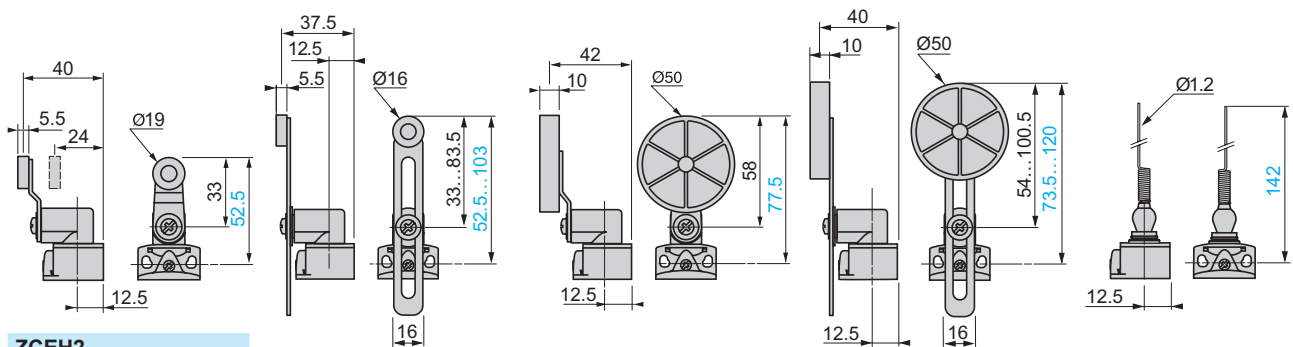
Type of head	Plunger (fixing by the head)		Rotary (fixing by the body)				Multi-directional
			Form A (1)				
Type of operator	M18 with metal end plunger	M18 with steel roller plunger	Thermoplastic roller lever	Variable length thermoplastic roller lever	Thermoplastic roller lever, Ø 50 mm	Variable length thermoplastic roller lever, Ø 50 mm	"Cat's whisker" (2)

References							
2-pole NC + NO snap action (XE2SP2151)	XCKD21H0M12	XCKD21H2M12	XCKD2118M12	XCKD2145M12	XCKD2139M12	XCKD2149M12	XCKD2106M12
2-pole NC + NC snap action (XE2SP2141)	ZCD29M12 + ZCEH0	ZCD29M12 + ZCEH2	ZCD29M12 + ZCE01 + ZCY18	ZCD29M12 + ZCE01 + ZCY45	ZCD29M12 + ZCE01 + ZCY39	ZCD29M12 + ZCE01 + ZCY49	ZCD29M12 + ZCE06
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				

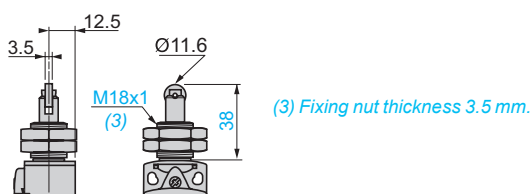
(1) Form conforming to EN 50047, see page 24.  
(2) Value taken with actuation by moving part at 100 mm from the fixing.

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, U <sub>i</sub> = 60 V, I <sub>e</sub> = 4 A maximum, I <sub>th</sub> = 4 A				

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



### ZCEH2

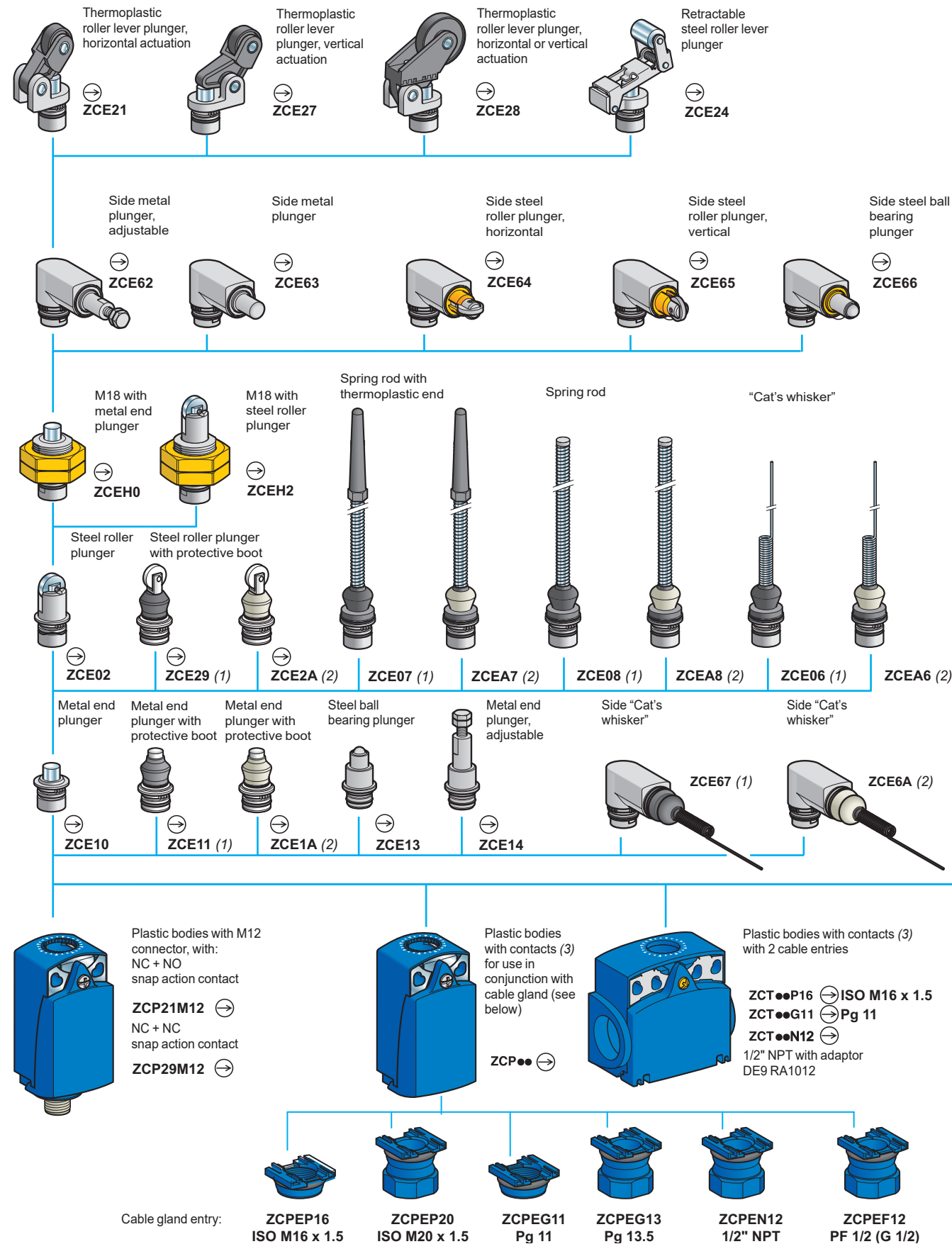




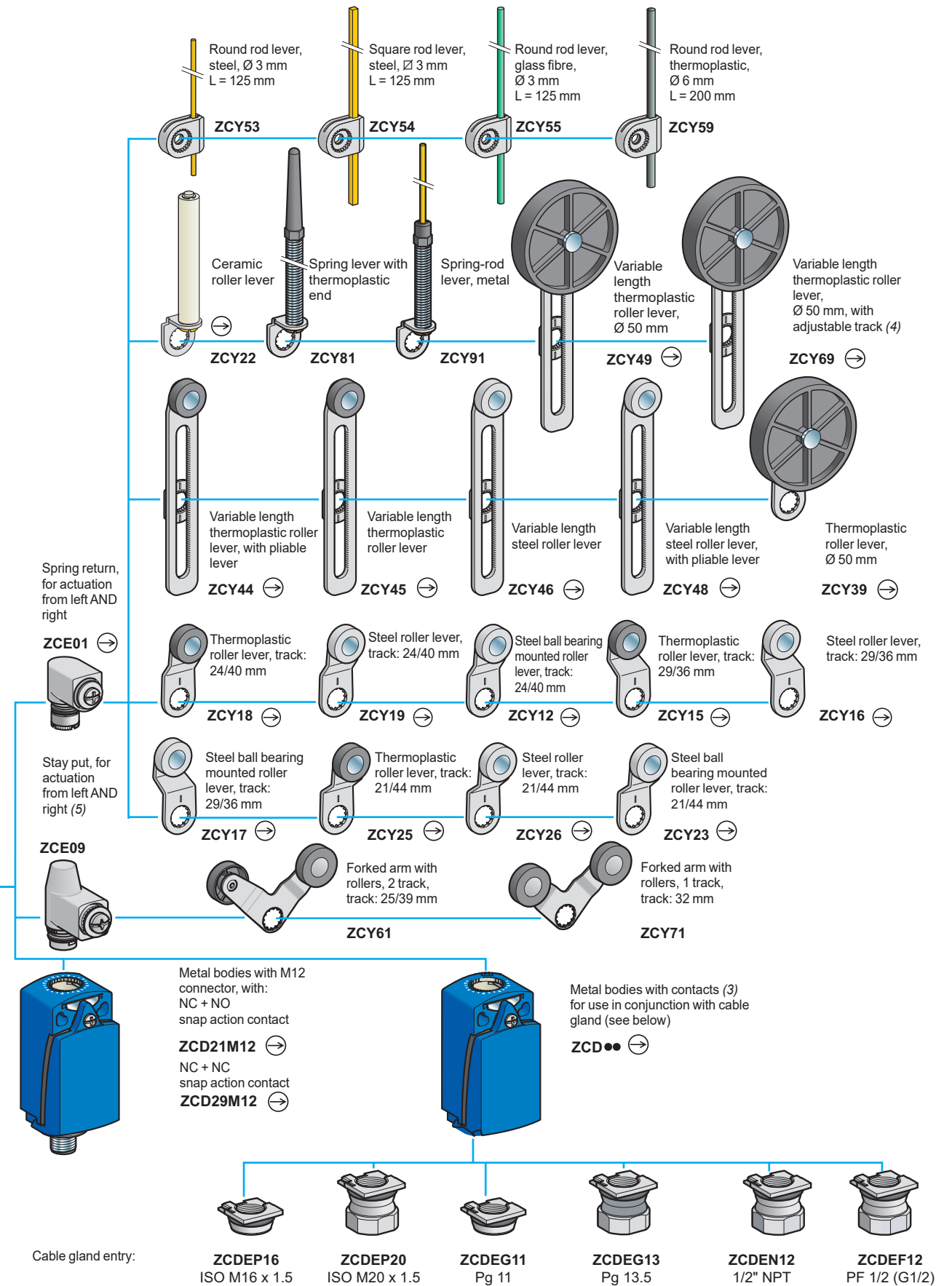
# Limit switches

## XC Standard range

Compact design, XCKD, XCKP and XCKT  
Variable composition



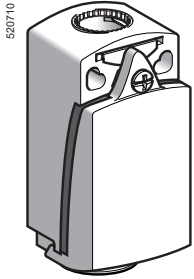
(1) Nitrile boot for indoor use.  
(2) Silicone boot for outdoor use.  
(3) For further information, see page 90.



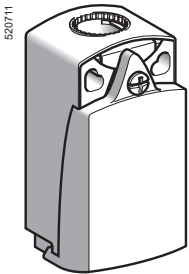
(4) Variable length and adjustable track by lever deformation.  
(5) Suitable with bodies: ZCD21, ZCP21, ZCT21, ZCD29, ZCP29, ZCD31, ZCP31, ZCD39, ZCP39, ZCD2●M12, ZCP2●M12

# Limit switches

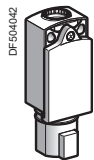
XC Standard range  
Compact design, metal, XCKD  
or plastic, XCKP  
Adaptable sub-assemblies: bodies with contacts



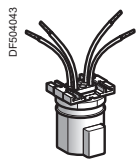
ZCD●●



ZCP●●



ZCP21D44



ZCPED44

## Bodies with contacts, XCKD and XCKP (1)

Type of contact	Positive operation (2)	Scheme	Body material	Reference	Weight kg
<b>2-pole</b>					
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
<b>3-pole</b>					
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
<b>2-pole</b>					
NC + NO snap action (XE2SP2151)	⊖		Connector	ZCP21D44	0.065
<b>DEUTSCH male connector DT04-4P</b>				ZCPED44	0.015

(1) Bodies with gold contacts or eyelet type connections: please consult your Customer Care Centre.  
(2) ⊖: bodies with contacts assuring positive opening operation.

# Limit switches

## XC Standard range

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

Adaptable sub-assemblies: bodies with contacts

561127



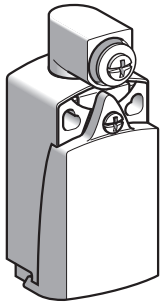
ZCE05

561392



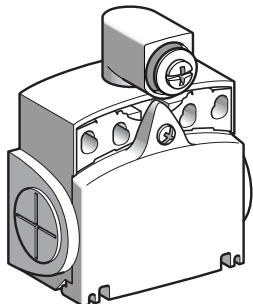
DE9RA1012

561388



XCK2001

561389



XCKT2001

### 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	DE9RA1012	0.050

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

Type of contact	Scheme	Positive operation (2)	Cable entry	Reference	Weight kg
<b>2-pole</b>					
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, XCKD metal, with rotary head (without operating lever)

Type of contact	Scheme	Positive operation (2)	Cable entry	Reference	Weight kg
<b>2-pole</b>					
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, XCKT plastic, with rotary head (without operating lever)

Type of contact	Scheme	Positive operation (2)	Cable entry	Reference	Weight kg
<b>2-pole</b>					
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 18.

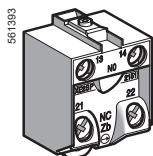
(2) : bodies with contact assuring positive opening operation.

# Limit switches

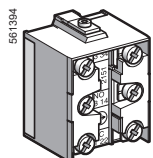
XC Standard range

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

Adaptable sub-assemblies: contact blocks



XE2●●21●●



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
<b>2-pole</b>				
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
<b>3-pole</b>				
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
<b>2-pole</b>				
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.