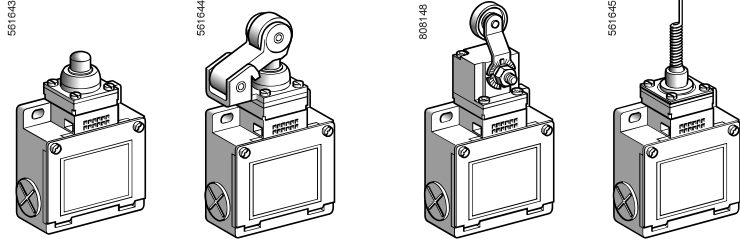


1

■ **XCKM,**
with 3 cable entries

□ With head for linear movement (plunger)

□ With head for rotary movement (lever) or multi-directional

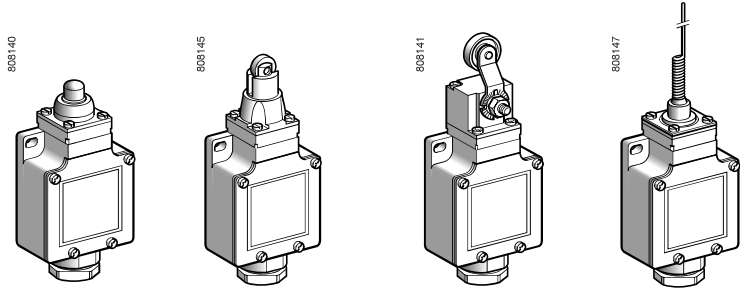


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■ **XCKL,**
with 1 cable entry

□ With head for linear movement (plunger)

□ With head for rotary movement (lever) or multi-directional

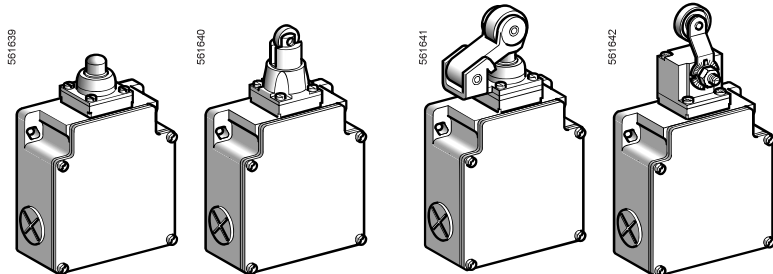


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■ **XCKML,**
with 3 cable entries and 2 x 2-pole contacts

□ With head for linear movement (plunger)

□ With head for rotary movement (lever)



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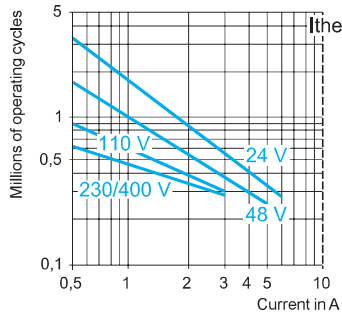
Environment characteristics		
Conformity to standards	Products	IEC 60947-5-1, EN 60947-5-1, UL 508, CSA C22-2 n° 14
	Machine assemblies	IEC 60204-1, EN 60204-1
Product certifications		UL, CSA CCC (only for XCKM) BV (only for XCKM and XCKL)
Protective treatment	Version	Standard: "TC". Special: "TH"
Ambient 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)
Shock resistance	Conforming to IEC 60068-2-27	50 gn (11 ms)
Electric shock protection		Class I conforming to IEC 61140 and NF C 20-030
Degree of protection		IP 66 conforming to IEC 60529; IK 05 conforming to EN 50102
Repeat accuracy		XCKML 0.1 mm; XCKM and XCKL 0.05 mm on the tripping points, with 1 million operating cycles for head with end plunger
Cable entry or connector	Depending on model	XCKM: 3 tapped entries for Pg 11 cable gland or tapped ISO M20, or with 1/2" NPT adaptor XCKL: 1 tapped entry incorporating Pg 13.5 cable gland or 1 entry tapped 1/2" NPT XCKML: 3 tapped entries for Pg 13.5 cable gland or tapped ISO M20
Materials		Bodies: Zamak. Rotary heads: Zamak or plastic, depending on product reference. Other heads: plastic



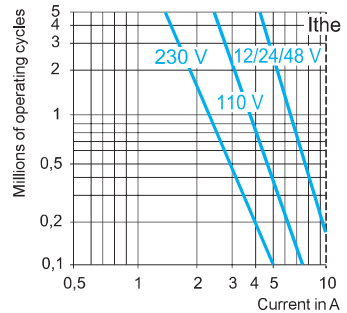
Contact block characteristics		
Rated operational characteristics	XE2●P	~ AC-15; A300 (Ue = 240 V, Ie = 3 A); Ithe = 10 A --- DC-13; Q300 (Ue = 250 V, Ie = 0.27 A), conforming to IEC 60947-5-1 Appendix A, EN 60947-5-1
	XE3●P	~ AC-15; B300 (Ue = 240 V, Ie = 1.5 A); Ithe = 6 A --- DC-13; R300 (Ue = 250 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)	XE2SP21●1	Clamping capacity, min: 1 x 0.34 mm ² , max: 2 x 1.5 mm ²
	XE2NP21●1	Clamping capacity, min: 1 x 0.5 mm ² , max: 2 x 2.5 mm ²
	XESP2151L and XENP2151L	Clamping capacity, min: 1 x 0.34 mm ² , max: 2 x 1.5 mm ² or 1 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		XE2SP21●1, XESP2151L and XE3SP: 0.01 m/minute XE2NP21●1, XENP2151L and XE3NP: 6 m/minute
Electrical durability		<ul style="list-style-type: none"> 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

XE2SP21●1, XE2SP2141, XESP2151L



XE2NP21●1, XENP2151L



DC supply ---

Power broken in W for 5 million operating cycles.

Voltage	V	24	48	120
mm	W	10	7	4

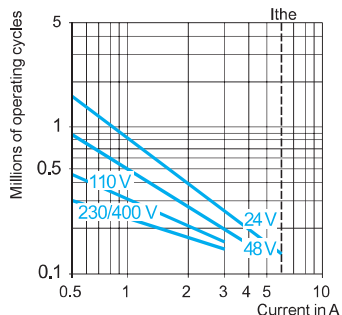
Power broken in W for 5 million operating cycles.

Voltage	V	24	48	120
mm	W	13	9	7

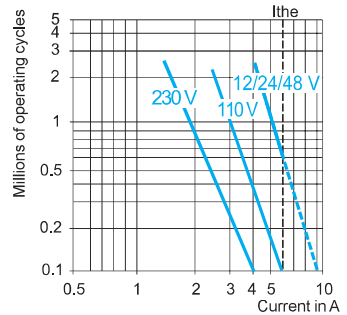
For XE2SP●151 on ~ or ---, NC and NO contacts simultaneously loaded to the values shown with reverse polarity.

AC supply
50/60 Hz ~
mm inductive circuit

XE3SP●●●●



XE3NP●●●●



DC supply ---

Power broken in W for 5 million operating cycles.

Voltage	V	24	48	120
mm	W	3	2	1

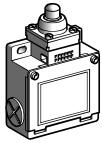
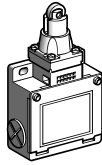
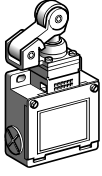
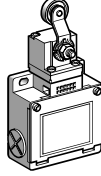
Power broken in W for 5 million operating cycles.

Voltage	V	24	48	120
mm	W	4	3	2

Limit switches

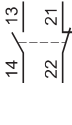
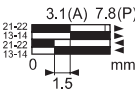
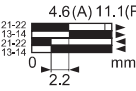
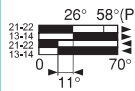
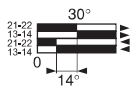
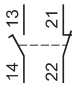
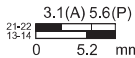
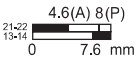
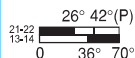
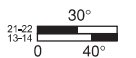
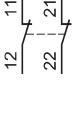
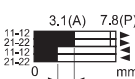
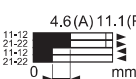
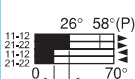

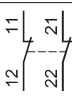
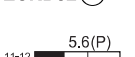
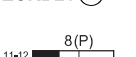


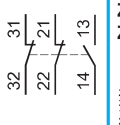
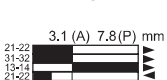
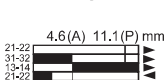
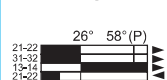
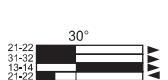
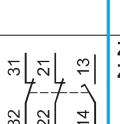
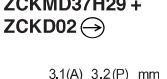
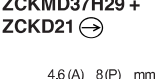





OsiSense XC Standard, Classic format
Metal, type XCKM
Complete switches with 3 cable entries

1

Type of head	Plunger (fixing by the body)	Rotary (fixing by the body)	Multi-directional, (fixing by the body)
			









Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	Thermoplastic roller lever (1)	"Cat's whisker" (2)
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References of complete switches with 3 ISO M20 x 1.5 cable entries (3)

2-pole NC + NO snap action (XE2SP2151)	 XCKM110H29	 XCKM102H29	 XCKM121H29	 XCKM115H29	 XCKM106H29
2-pole NC + NO break before make, slow break (XE2NP2151)	 XCKM510H29	 XCKM502H29	 XCKM521H29	 XCKM515H29	 XCKM506H29
2-pole NC + NC snap action (XE2SP2141)	 ZCKM9H29 + ZCKD10	 ZCKM9H29 + ZCKD02	 ZCKM9H29 + ZCKD21	 ZCKM9H29 + ZCKD15	 ZCKM9H29 + ZCKD06
2-pole NC + NC simultaneous, slow break (XE2NP2141)	 ZCKM7H29 + ZCKD10	 ZCKM7H29 + ZCKD02	 ZCKM7H29 + ZCKD21	 ZCKM7H29 + ZCKD15	 ZCKM7H29 + ZCKD06
3-pole NC + NC + NO snap action (XE3SP2141)	 ZCKMD39H29 + ZCKD10	 ZCKMD39H29 + ZCKD02	 ZCKMD39H29 + ZCKD21	 ZCKMD39H29 + ZCKD15	 ZCKMD39H29 + ZCKD06
3-pole NC + NC + NO break before make, slow break (XE3NP2141)	 ZCKMD37H29 + ZCKD10	 ZCKMD37H29 + ZCKD02	 ZCKMD37H29 + ZCKD21	 ZCKMD37H29 + ZCKD15	 ZCKMD37H29 + ZCKD06
Weight (kg)	0,250	0,255	0,300	0,280	0,250
Contact operation	 closed  open	(A) = cam displacement (P) = positive opening point		 NC contact with positive opening operation	

References of complete switches with 3 Pg 11 cable entries

For complete switches with 3 Pg 11 cable entries, delete H29 from the end of the reference. Example: XCKM110H29 becomes XCKM110.

Characteristics	On end	By 30° cam		By any moving part
Switch actuation				
Type of actuation				
Maximum actuation speed	0.5 m/s		1.5 m/s	1 m/s (any direction)
Mechanical durability (4) (in millions of operating cycles)	20			15 10
Minimum force or torque	For tripping: 15 N For positive opening: 45 N	12 N 36 N	8 N 24 N	0.1 N.m 0.25 N.m -
Cable entry	3 entries tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm			

(1) Adjustable throughout 360° in 5° steps, or in 90° steps by reversing the notched washer.

(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.

(4) Limited to 15 million operating cycles for switches with contacts XE3P.

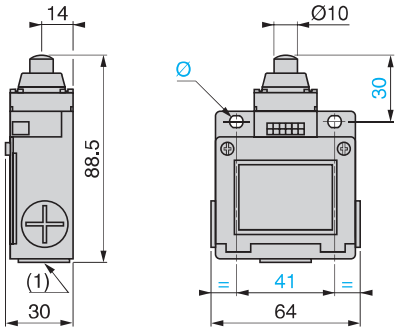
Limit switches

OsiSense XC Standard, Classic format

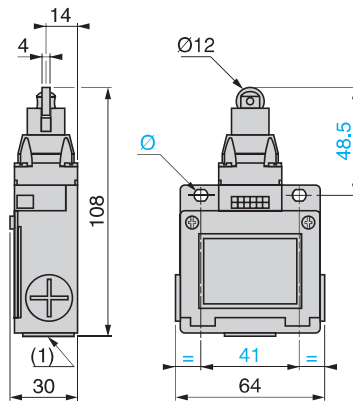
Metal, type XCKM

Complete switches with 3 cable entries

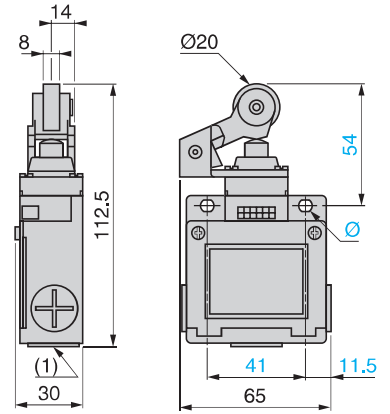
XCKM●10
ZCKMD3● + ZCKD10



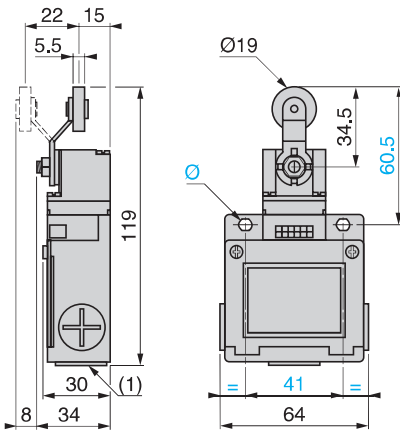
XCKM●02
ZCKMD3● + ZCKD02



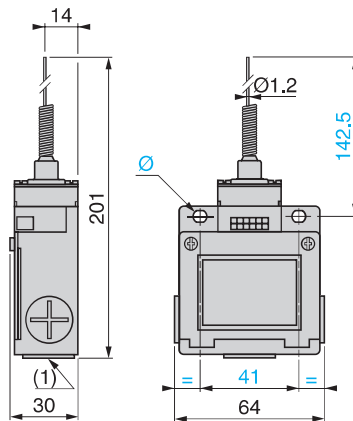
XCKM●21
ZCKMD3● + ZCKD21



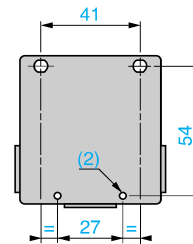
XCKM●15
ZCKMD3● + ZCKD15



XCKM●06
ZCKMD3● + ZCKD06



Rear view XCKM●●●, ZCKM●, ZCKMD3●

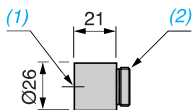


(1) 3 tapped entries for ISO M20 x 1.5 or Pg 11 cable gland or with 1/2" NPT conduit adaptor DE9RA1012.

(2) 2 x Ø 4 H 11, depth 10.

Ø: 2 elongated holes Ø 5.2 x 6.2

Adaptor for 1/2" NPT conduit
DE9RA1012



(1) Tapped entry for 1/2" NPT conduit.

(2) Pg 11 threaded sleeve.

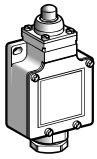
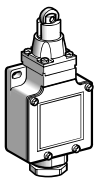
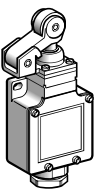
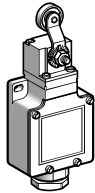
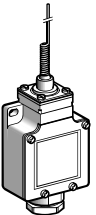
Limit switches

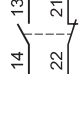



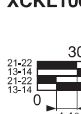
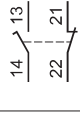

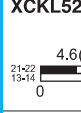
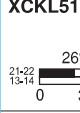
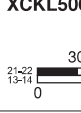
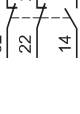

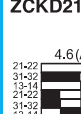

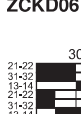
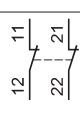

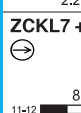

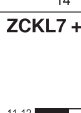
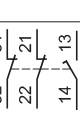
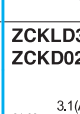





OsiSense XC Standard, Classic format






Metal, type XCKL

Complete switches incorporating Pg 13.5 cable gland

1

Type of head	Plunger (fixing by the body)	Rotary (fixing by the body)	Multi-directional, (fixing by the body)		
					
Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	Thermoplastic roller lever (1)	"Cat's whisker" (2)

References (3)					
2-pole NC + NO snap action (XE2SP2151)	 XCKL110 ⊕ 1.8 4.5(P) 0.9 5.5mm	 XCKL102 ⊕ 3.1(A) 7.8(P) 1.5 mm	 XCKL121 ⊕ 4.6(A) 11.1(P) 2.2 mm	 XCKL115 ⊕ 26° 58°(P) 11° 70°	 XCKL106 30° 14°
2-pole NC + NO break before make, slow break (XE2NP2151)	 XCKL510 ⊕ 1.8 3.2(P) 0 3 5.5mm	 XCKL502 ⊕ 3.1(A) 5.6(P) 0 5.2 mm	 XCKL521 ⊕ 4.6(A) 8(P) 0 7.6 mm	 XCKL515 ⊕ 26° 42°(P) 0 36° 70°	 XCKL506 30° 0 40°
3-pole NC + NC + NO snap action (XE3SP2141)	 ZCKLD39 + ZCKD10 ⊕ 1.8 4.5(P) mm 0.9 5.5	 ZCKLD39 + ZCKD02 ⊕ 3.1(A) 7.8(P) mm 1.5	 ZCKLD39 + ZCKD21 ⊕ 4.6(A) 11.1(P) mm 2.2	 ZCKLD39 + ZCKD15 ⊕ 26° 58°(P) 11° 70°	 ZCKLD39 + ZCKD06 30° 14°
2-pole NC + NC simultaneous, slow break (XE2NP2141)	 ZCKL7 + ZCKD10 ⊕ 1.8 3.2(P) 11-12 21-22 5.5mm	 ZCKL7 + ZCKD02 ⊕ 5.6(P) 11-12 21-22 3.1(A) 9mm	 ZCKL7 + ZCKD21 ⊕ 8(P) 11-12 21-22 4.6(A) mm	 ZCKL7 + ZCKD15 ⊕ 42°(P) 11-12 21-22 23° 70°	 ZCKL7 + ZCKD06 30° 11-12 21-22
3-pole NC + NC + NO break before make, slow break (XE3NP2141)	 ZCKLD37 + ZCKD10 ⊕ 1.8 3.2(P) mm 0 3 5.5	 ZCKLD37 + ZCKD02 ⊕ 3.1(A) 3.2(P) mm 0 5.2 5.5	 ZCKLD37 + ZCKD21 ⊕ 4.6(A) 8(P) mm 0 7.6	 ZCKLD37 + ZCKD15 ⊕ 26° 42°(P) 0 36° 70°	 ZCKLD37 + ZCKD06 30° 0 40°
Weight (kg)	0.255	0.260	0.305	0.285	0.255
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 direction)
Mechanical durability (4) (in millions of operating cycles)	20	15			10
Minimum force or torque	For tripping For positive opening	15 N 45 N	12 N 36 N	8 N 24 N	0.1 N.m 0.25 N.m
Cable entry	1 entry incorporating metal cable gland. Clamping capacity 6 to 13.5 mm.				

(1) Adjustable throughout 360° in 5° steps, or in 90° steps by reversing the notched washer.
 (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.
 (4) Limited to 15 million operating cycles for switches with contacts XE3●P.

Limit switches

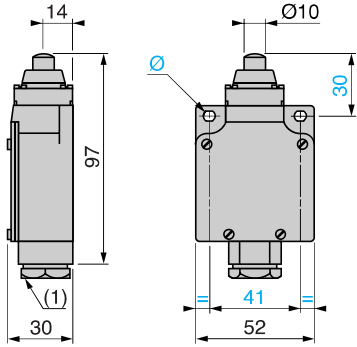
OsiSense XC Standard, Classic format

Metal, type XCKL

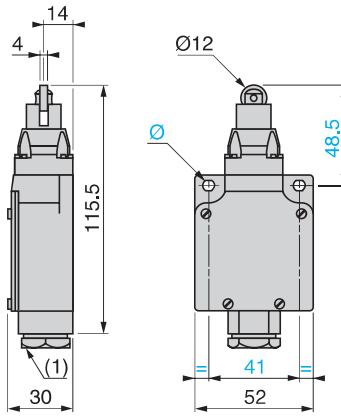
Complete switches incorporating Pg 13.5 cable gland



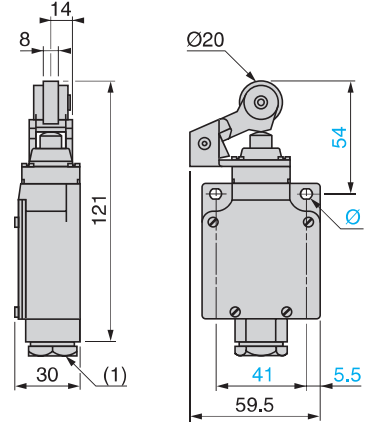
XCKL●10
ZCKL● + ZCKD10
ZCKLD3● + ZCKD10



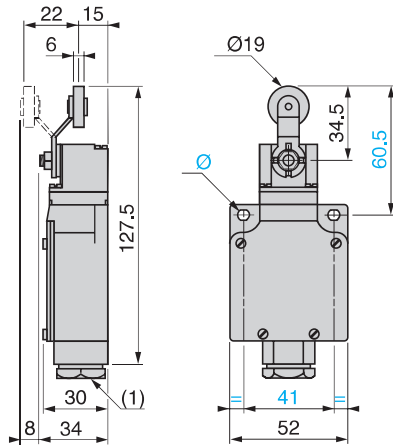
XCKL●02
ZCKL3● + ZCKD02
ZCKLD3● + ZCKD02



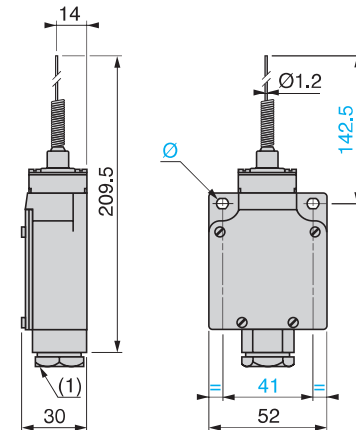
XCKL●21
ZCKL● + ZCKD21
ZCKLD3● + ZCKD21



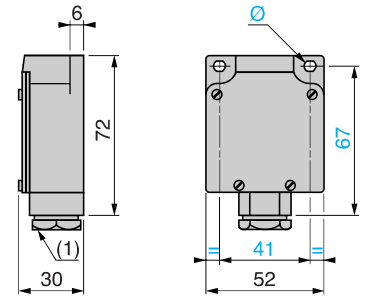
XCKL●15
ZCKL● + ZCKD15
ZCKLD3● + ZCKD15



XCKL●06
ZCKL● + ZCKD06
ZCKLD3● + ZCKD06



Body fixings

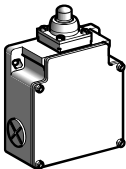
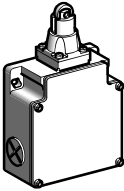
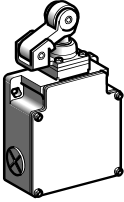
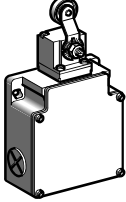


(1) Incorporated Pg 13.5 cable gland
Ø: 2 elongated holes Ø 5.2 x 6.2

Limit switches





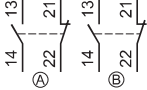
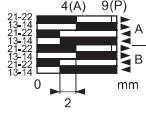


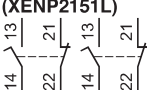
OsiSense XC Standard, Classic format
Metal, 2 x 2-pole contacts, type XCKML
Complete switches with 3 cable entries

1





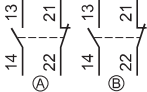
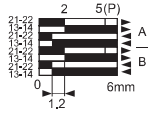
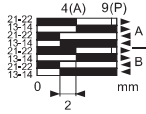
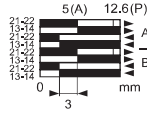
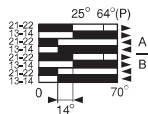




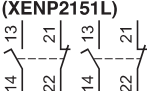

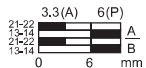
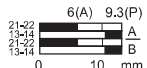
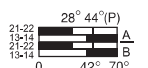
Type of head	Plunger (fixing by the body)			Rotary (fixing by the body)
				




Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	Thermoplastic roller lever (1)
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References of complete switches with 3 ISO M20 x 1.5 cable entries (2)





2 x 2-pole NC + NO snap action (XESP2151L)	XCKML110H29 	XCKML102H29 	XCKML121H29 	XCKML115H29 
				
2 x 2-pole NC + NO break before make, slow break (XENP2151L)	XCKML510H29 	XCKML502H29 	XCKML521H29 	XCKML515H29 
				

References of complete switches with 3 entries tapped for n° 13 cable gland (2)

2 x 2-pole NC + NO snap action (XESP2151L)	XCKML110 	XCKML102 	XCKML121 	XCKML115 
				
2 x 2-pole NC + NO break before make, slow break (XENP2151L)	XCKML510 	XCKML502 	XCKML521 	XCKML515 
				

Weight (kg)	0.400	0.405	0.450	0.430
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		
Type of actuation				
Maximum actuation speed	0.5 m/s	1.5 m/s		
Mechanical durability	3 million operating cycles			
Minimum force	For tripping: 15 N For positive opening: 60 N	12 N 50 N	8 N 50 N	0.2 N.m 0.5 N.m
Cable entry	3 entries tapped ISO M20 x 1.5, clamping capacity 7 to 13 mm, or 3 entries tapped for n° 13 cable gland conforming to NF C 68-300 (DIN Pg 13.5), clamping capacity 9 to 12 mm.			

(1) Adjustable throughout 360° in 5° steps, or in 90° steps by reversing the notched washer.
 (2) Switches available with other 2-pole slow break contact blocks: NO + NC make before break, NC + NC simultaneous (with positive opening operation), NO + NO simultaneous. Please consult our Customer Care Centre.

Note: replacement parts
 The heads of limit switches type XCKML are the same as those for types XCKM and XCKL (see heads ZCKD10, ZCKD02, ZCKD21 and ZCKD15 on page 1/82).

Limit switches

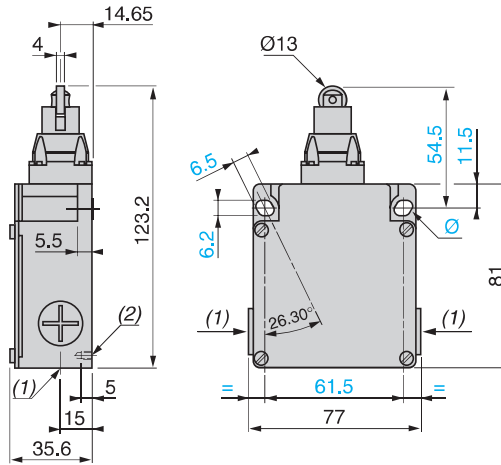
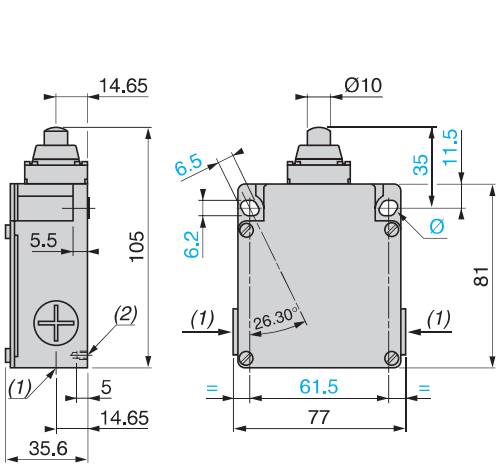
OsiSense XC Standard, Classic format

Metal, 2 x 2-pole contacts, type XCKML

Complete switches with 3 cable entries

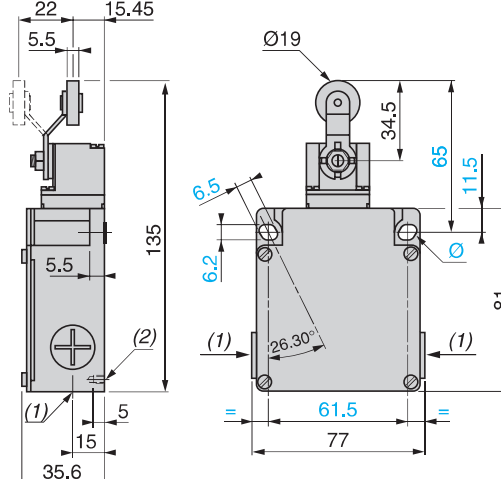
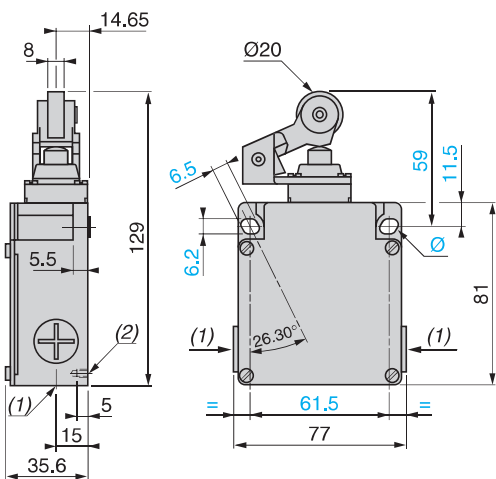
XCKML110H29, XCKML510H29, XCKML110, XCKML510

XCKML102H29, XCKML502H29, XCKML102, XCKML502



XCKML121H29, XCKML521H29, XCKML121, XCKML521

XCKML115H29, XCKML515H29, XCKML115, XCKML515

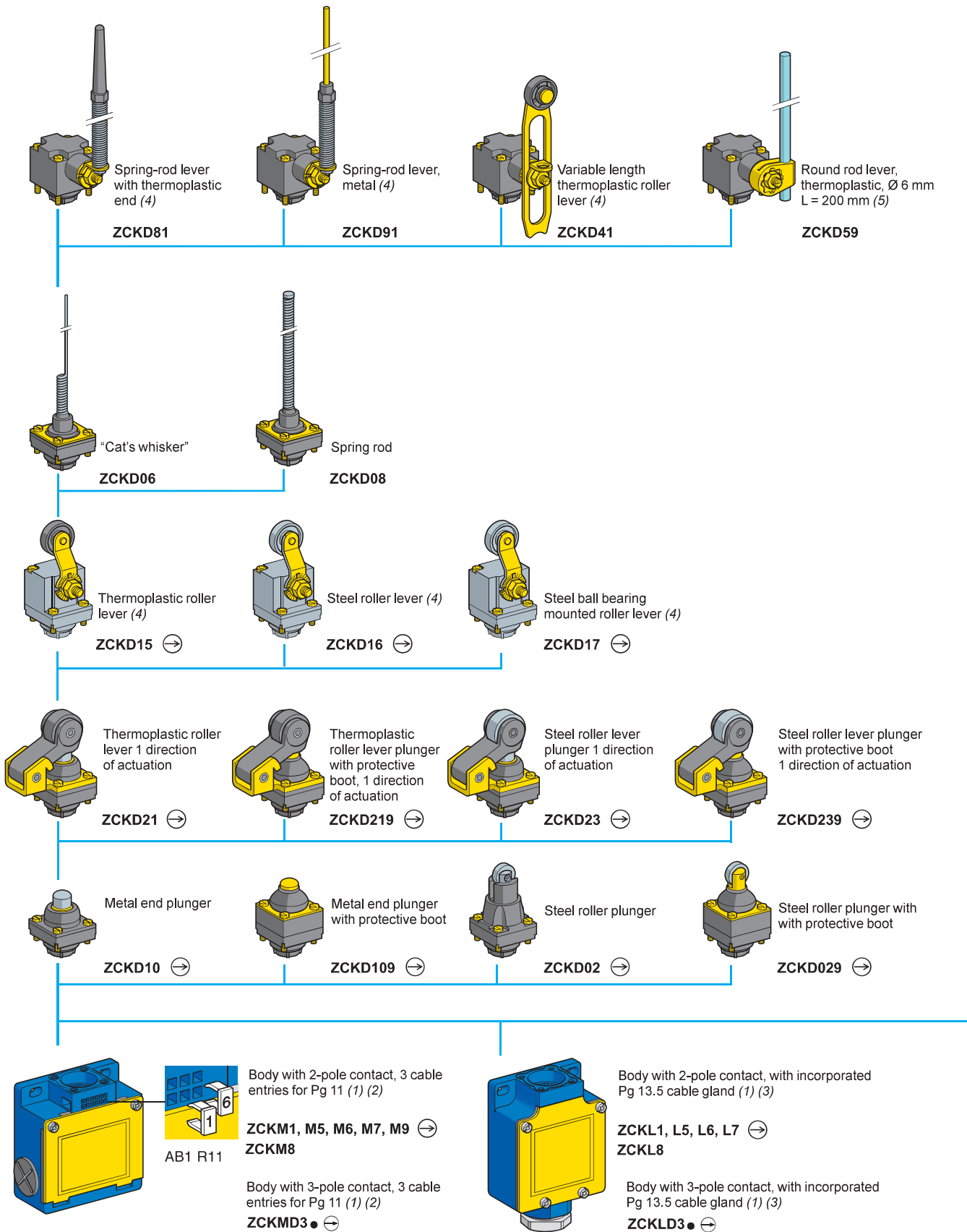


(1) XCKML●●●H29: 3 entries tapped M20 x 1.5. XCKML●●●: 3 tapped entries for n° 13 cable gland.
 (2) 2 centring holes Ø 3.9 ± 0.2, for cover fixing holes alignment.
 Ø 2 elongated holes 6.2 x 6.5, inclined at 26° 30' to the vertical axis, for M5 screws.

Limit switches

OsiSense XC Standard, Classic format
Metal, types XCKM and XCKL
Variable composition

1



(1) For further information, see page 1/84.

(2) For 3 cable entries tapped ISO M20 x 1.5, add **H29** to the reference. Example: ZCKM1 becomes **ZCKM1H29**.

For one cable entry with 1/2" NPT adaptor, add **H7** to the reference. Example: ZCKM1 becomes **ZCKM1H7**.

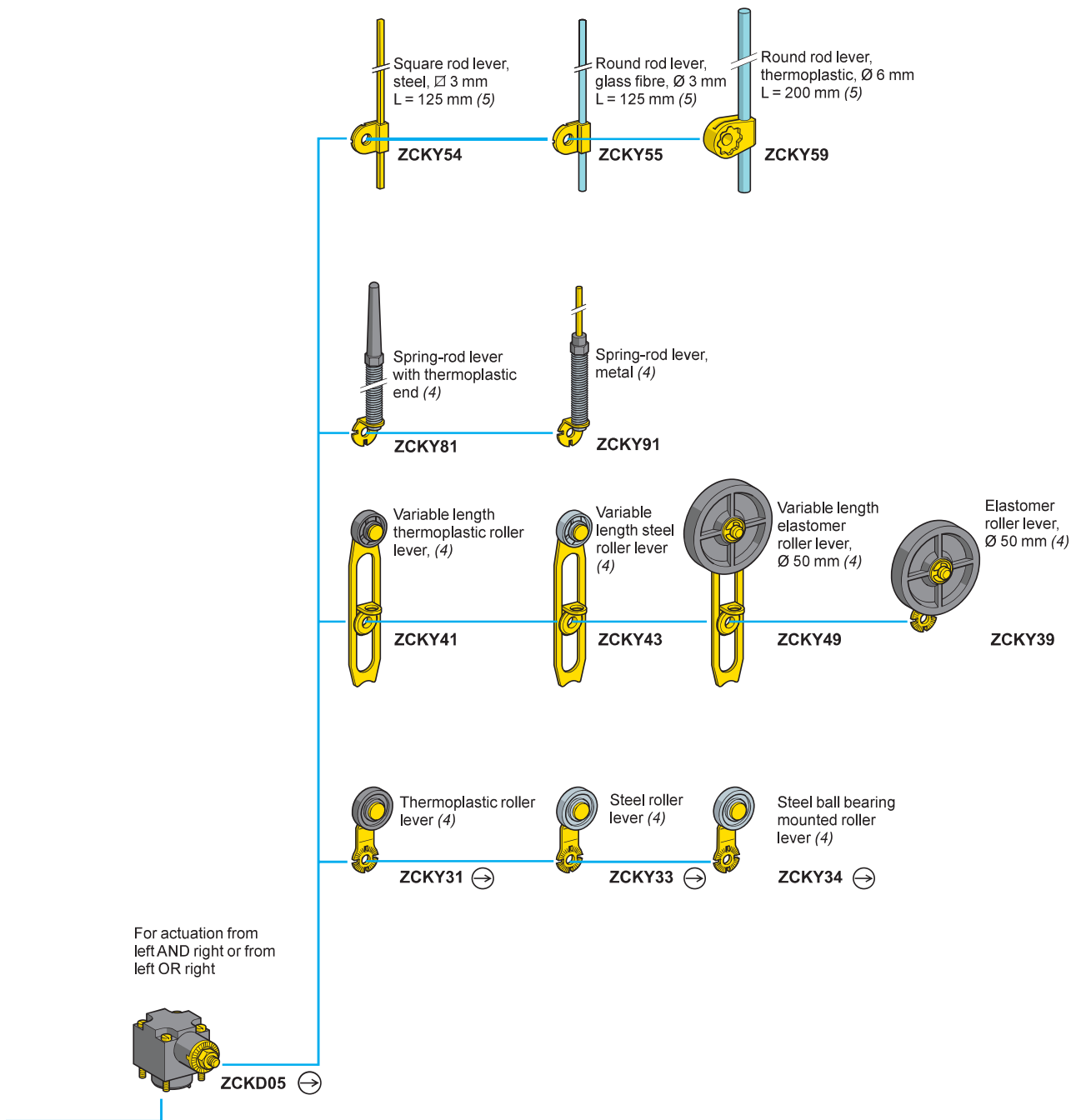
(3) For one cable entry tapped 1/2" NPT, add **H7** to the reference. Example: ZCKL1 becomes **ZCKL1H7**.

Limit switches

OsiSense XC Standard, Classic format

Metal, types XCKM and XCKL

Variable composition



\rightarrow : head assuring positive opening operation.

(4) Adjustable throughout 360° in 5° steps, or in 90° steps by reversing the notched washer.

(5) Adjustable throughout 360° in 5° steps, or in 45° steps by reversing the lever mounting.

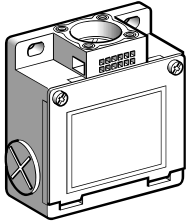
Limit switches

OsiSense XC Standard, Classic format

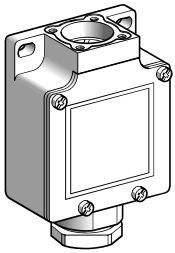
Metal, types XCKM and XCKL

Adaptable sub-assemblies

1



ZCKM●



ZCKL●

Bodies with 2-pole contact

With contact block	Scheme	Positive operation (1)	Cable entry	Reference	Weight kg
For limit switches type XCKM					
NC + NO snap action (XE2SP2151)		⊙	Pg 11	ZCKM1	0.210
			ISO M20 x 1.5	ZCKM1H29	0.210
			1/2" NPT (2)	ZCKM1H7	0.210
NC + NO break before make, slow break (XE2NP2151)		⊙	Pg 11	ZCKM5	0.210
			ISO M20 x 1.5	ZCKM5H29	0.210
			1/2" NPT (2)	ZCKM5H7	0.210
NO + NC make before break, slow break (XE2NP2161)		⊙	Pg 11	ZCKM6	0.210
			ISO M20 x 1.5	ZCKM6H29	0.210
			1/2" NPT (2)	ZCKM6H7	0.210
NC + NC simultaneous, slow break (XE2NP2141)		⊙	Pg 11	ZCKM7	0.210
			ISO M20 x 1.5	ZCKM7H29	0.210
			1/2" NPT (2)	ZCKM7H7	0.210
NO + NO simultaneous, slow break (XE2NP2131)		-	Pg 11	ZCKM8	0.210
			ISO M20 x 1.5	ZCKM8H29	0.210
			1/2" NPT (2)	ZCKM8H7	0.210
NC + NC snap action (XE2SP2141)		⊙	Pg 11	ZCKM9	0.210
			ISO M20 x 1.5	ZCKM9H29	0.210
For limit switches type XCKL					
NC + NO snap action (XE2SP2151)		⊙	Pg 13.5	ZCKL1 (3)	0.210
			1/2" NPT	ZCKL1H7	0.210
NC + NO break before make, slow break (XE2NP2151)		⊙	Pg 13.5	ZCKL5 (3)	0.210
			1/2" NPT	ZCKL5H7	0.210
NO + NC make before break, slow break (XE2NP2161)		⊙	Pg 13.5	ZCKL6 (3)	0.210
			1/2" NPT	ZCKL6H7	0.210
NC + NC simultaneous, slow break (XE2NP2141)		⊙	Pg 13.5	ZCKL7 (3)	0.210
			1/2" NPT	ZCKL7H7	0.210
NO + NO simultaneous, slow break (XE2NP2131)		-	Pg 13.5	ZCKL8 (3)	0.210
			1/2" NPT	ZCKL8H7	0.210

(1) ⊙: NC contact with positive opening operation.

(2) 3 tapped entries, one with metal adaptor for 1/2" NPT (USASB2-1) conduit.

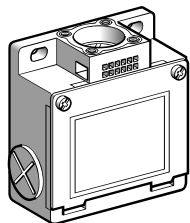
(3) Pg 13.5 cable gland included with switch.

Limit switches

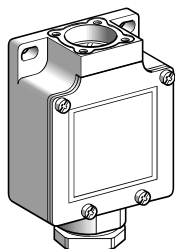
OsiSense XC Standard, Classic format

Metal, types XCKM and XCKL

Adaptable sub-assemblies



ZCKMD3●



ZCKLD3●

Bodies with 3-pole contact					
With contact block	Scheme	Positive operation (1)	Cable entry	Reference	Weight kg
For limit switches type XCKM					
NC + NO + NO snap action (XE3SP2151)		⊙	Pg 11	ZCKMD31	0.210
			ISO M20 x 1.5	ZCKMD31H29	0.210
			1/2" NPT (2)	ZCKMD31H7	0.210
NC + NC + NO snap action (XE3SP2141)		⊙	Pg 11	ZCKMD39	0.210
			ISO M20 x 1.5	ZCKMD39H29	0.210
			1/2" NPT (2)	ZCKMD39H7	0.210
NC + NC + NO break before make, slow break (XE3NP2141)		⊙	Pg 11	ZCKMD37	0.210
			ISO M20 x 1.5	ZCKMD37H29	0.210
			1/2" NPT (2)	ZCKMD37H7	0.210
NC + NO + NO break before make, slow break (XE3NP2151)		⊙	Pg 11	ZCKMD35	0.210
			ISO M20 x 1.5	ZCKMD35H29	0.210
			1/2" NPT (2)	ZCKMD35H7	0.210
For limit switches type XCKL					
NC + NO + NO snap action (XE3SP2151)		⊙	Pg 13.5	ZCKLD31 (3)	0.210
			1/2" NPT	ZCKLD31H7	0.210
NC + NC + NO snap action (XE3SP2141)		⊙	Pg 13.5	ZCKLD39 (3)	0.210
			1/2" NPT	ZCKLD39H7	0.210
NC + NC + NO break before make, slow break (XE3NP2141)		⊙	Pg 13.5	ZCKLD37 (3)	0.210
			1/2" NPT	ZCKLD37H7	0.210
NC + NO + NO break before make, slow break (XE3NP2151)		⊙	Pg 13.5	ZCKLD35 (3)	0.210
			1/2" NPT	ZCKLD35H7	0.210

(1) ⊙ : NC contact with positive opening operation.

(2) 3 tapped entries, one with metal adaptor for 1/2" NPT (USASB2-1) conduit.

(3) Pg 13.5 cable gland included with switch.

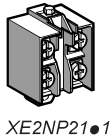
Limit switches

OsiSense XC Standard, Classic format
Metal, types XCKM and XCKL
Adaptable sub-assemblies

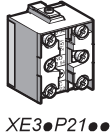
1



XE2SP21●1



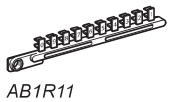
XE2NP21●1



XE3●P21●●



XCKZ09



AB1R11

Contact blocks						
Type of contact	Scheme	For bodies	Positive operation (1)	Reference	Weight kg	
2-pole contact						
NC + NO snap action		ZCKM1 ZCKL1	⊕	XE2SP2151	0.020	
NC + NO break before make, slow break		ZCKM5 ZCKL5	⊕	XE2NP2151	0.020	
NO + NC make before break, slow break		ZCKM6 ZCKL6	⊕	XE2NP2161	0.020	
NC + NC simultaneous, slow break		ZCKM7 ZCKL7	⊕	XE2NP2141	0.020	
NO + NO simultaneous, slow break		ZCKM8 ZCKL8	-	XE2NP2131	0.020	
NC + NC snap action		ZCKM9	⊕	XE2SP2141	0.020	
3-pole contact						
NC + NO + NO snap action		ZCKMD31 ZCKLD31	⊕	XE3SP2151	0.035	
NC + NC + NO snap action		ZCKMD39 ZCKLD39	⊕	XE3SP2141	0.035	
NC + NC + NO break before make, slow break		ZCKMD37 ZCKLD37	⊕	XE3NP2141	0.035	
NC + NO + NO break before make, slow break		ZCKMD35 ZCKLD35	⊕	XE3NP2151	0.035	

(1) ⊕: NC contact with positive opening operation or sub-assembly assuring positive opening operation.

Accessories for limit switches type XCKM				
Description	Sold in lots of	Unit reference	Weight kg	
Tap-off terminal for cabling continuity	1	XCKZ09	0.010	
Clip-in markers (strips of 10 numbers: 0 to 9) Other markers, please consult our Customer Care Centre.	25	AB1R11	0.002	

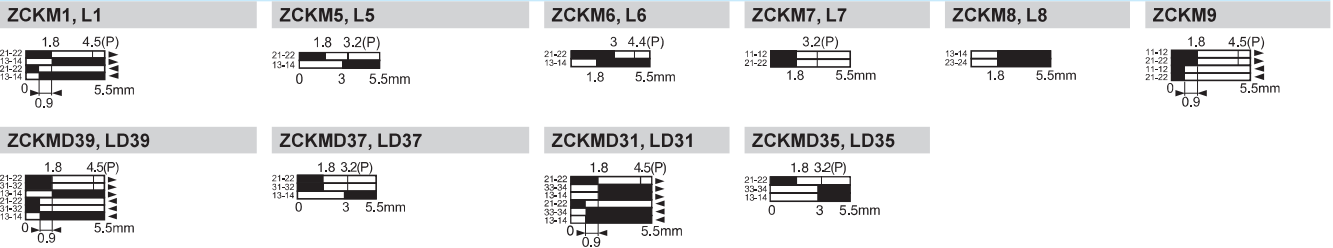
Other versions Gold flashed contacts.
Please consult our Customer Care Centre.

Limit switches

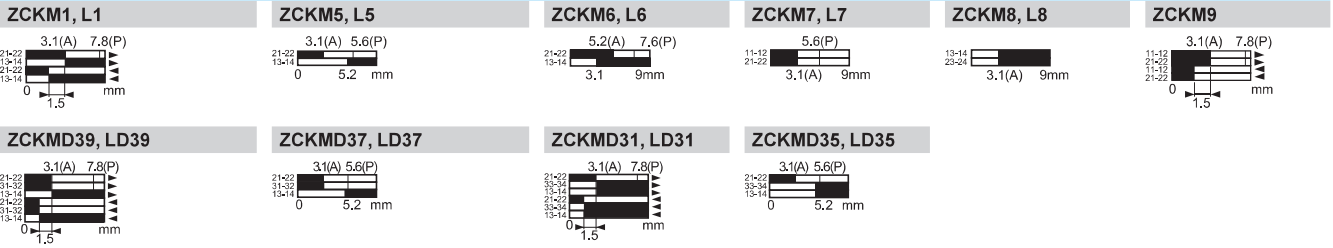
OsiSense XC Standard, Classic format
Metal, types XCKM and XCKL
Adaptable sub-assemblies



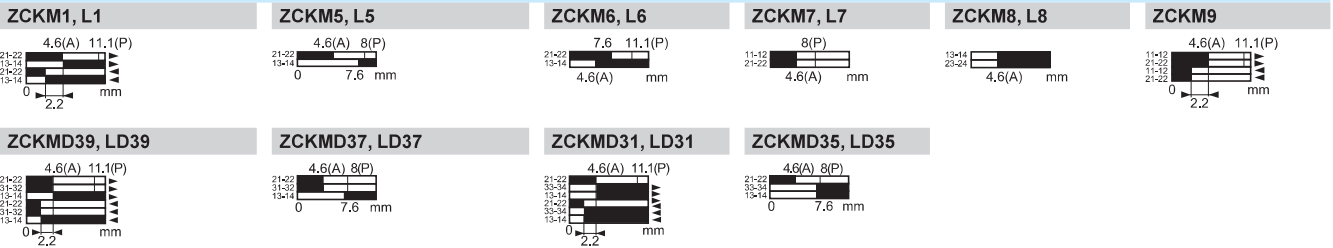
Heads ZCKD10, D109 with body



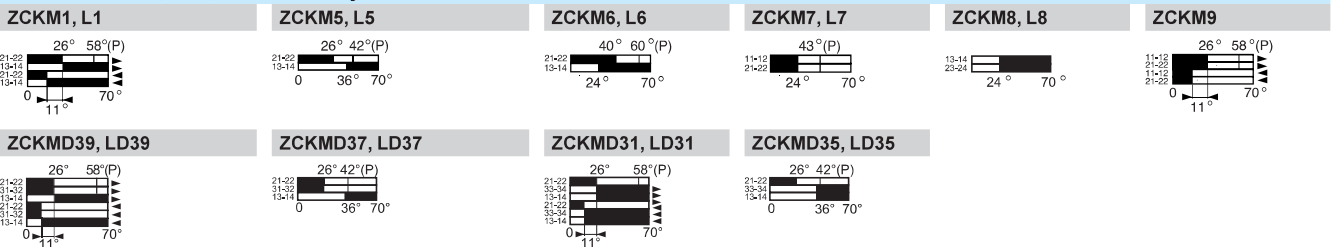
Heads ZCKD02, D029 with body



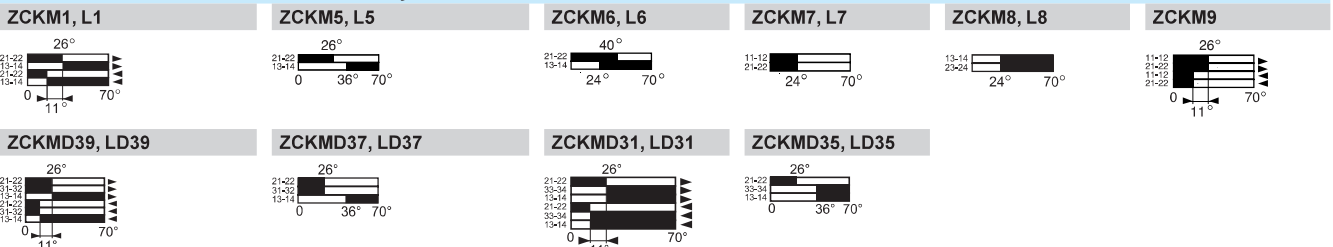
Heads ZCKD21, D23, D219, D239 with body



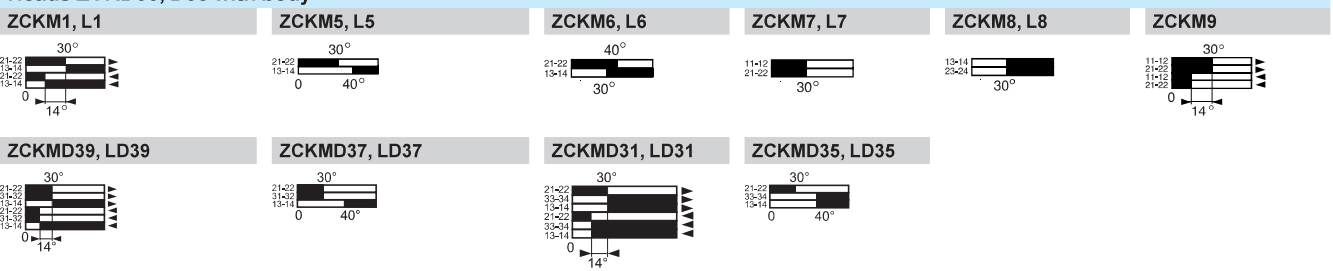
Heads ZCKD15, D16, D17 with body



Heads ZCKD41, D59, D81, D91 with body



Heads ZCKD06, D08 with body



Contact operation

closed
 open

(A) = cam displacement
(P) = positive opening point

Limit switches

OsiSense XC Standard, Classic format

Metal, types XCKM and XCKL

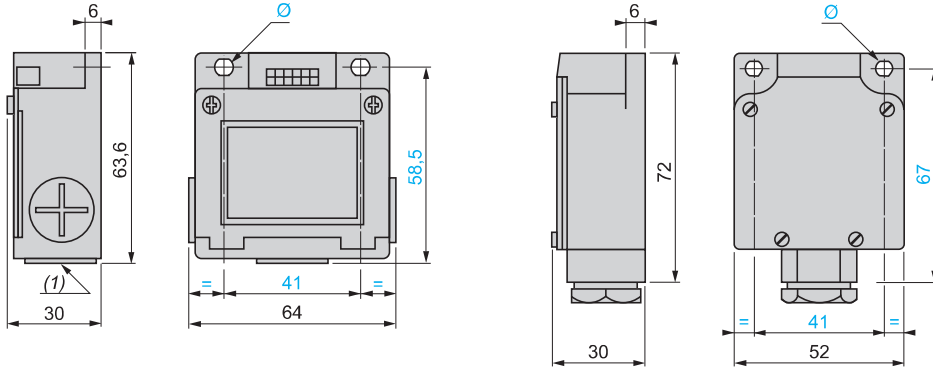
Adaptable sub-assemblies

1

Bodies with contacts

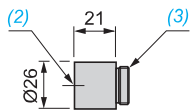
ZCKM1, M5, M6, M7, M8, M9, MD3●, MD3H●29, MD3●H7
 ZCKM1H29, M5H29, M6H29, M7H29, M8H29, M9H29
 ZCKM1H7, M5H7, M6H7, M7H7, M8H7

ZCKL1, L5, L6, L7, L8, LD3● (with incorporated Pg 13.5 cable gland)
 ZCKL1H7, L5H7, L6H7, L7H7, L8H7, LD3●H7 (with 1/2" NPT cable entry)



Adaptor for 1/2" NPT conduit

DE9RA1012



(1) 3 tapped entries for ISO M20 x 1.5 or Pg 11 cable gland.

Ø: 2 elongated holes Ø 5.2 x 6.2

(2) Tapped entry for 1/2" NPT conduit.

(3) Pg 11 threaded sleeve.

Limit switches

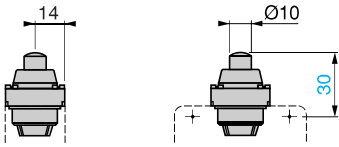
OsiSense XC Standard, Classic format

Metal, types XCKM and XCKL

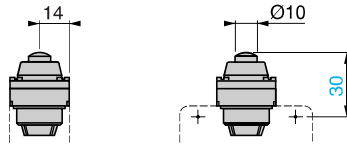
Adaptable sub-assemblies

Plunger heads

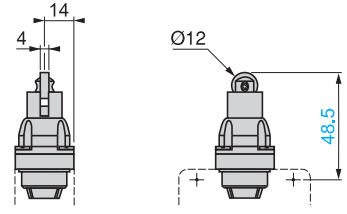
ZCKD10



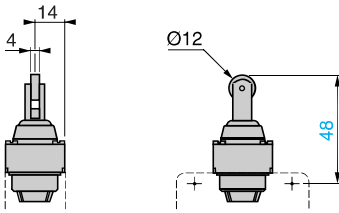
ZCKD109



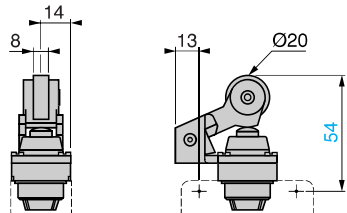
ZCKD02



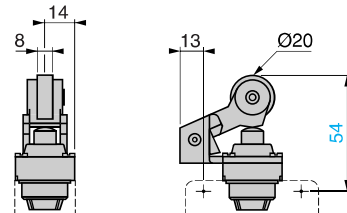
ZCKD029



ZCKD21, D23

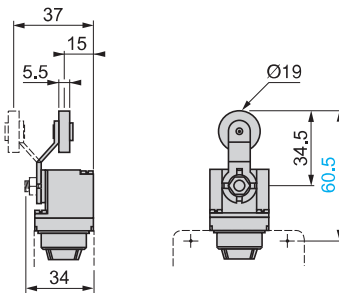


ZCKD219, D239

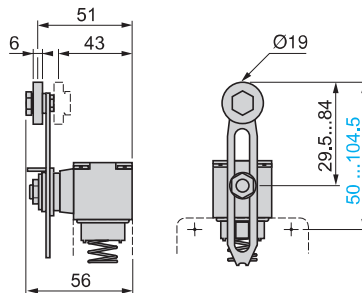


Rotary heads

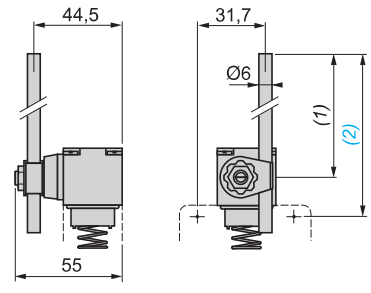
ZCKD15, D16, D17



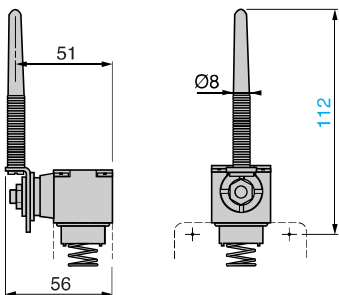
ZCKD41



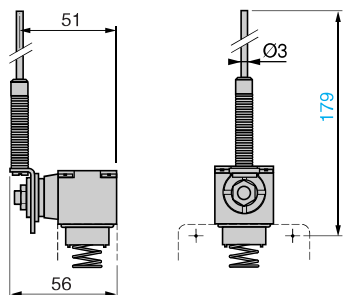
ZCKD59



ZCKD81

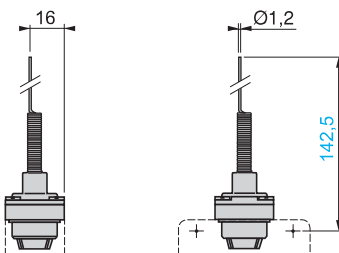


ZCKD91

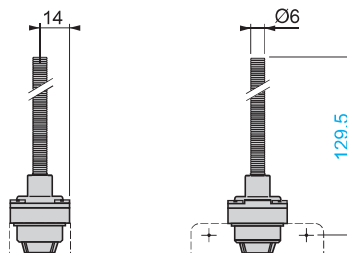


Multi-directional heads

ZCKD06



ZCKD08



(1) 190 max.
(2) 215.5 max.

Note: operating lever spindle threaded M6.