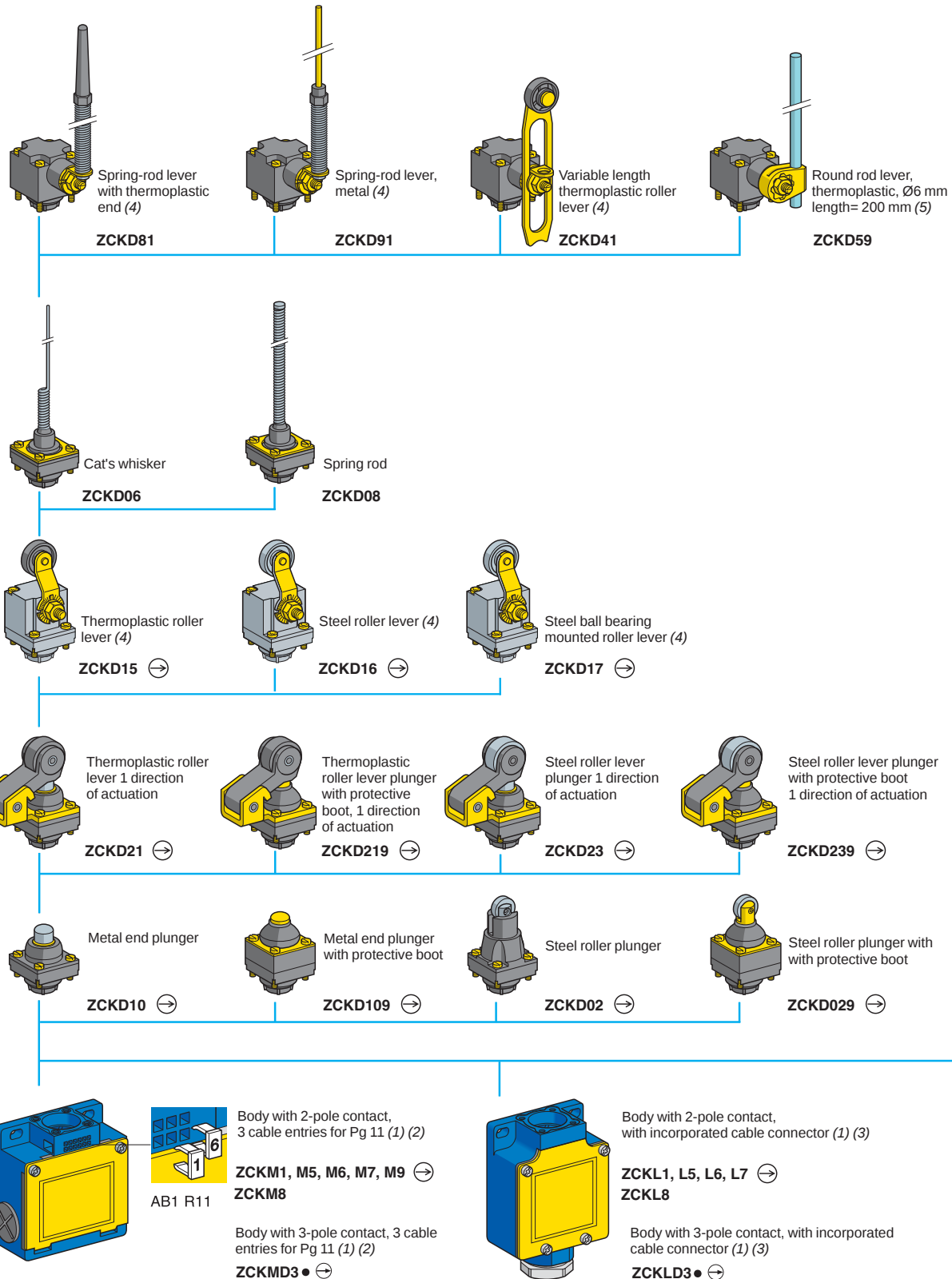


Limit switches

OsiSense™ XC Standard, Classic format

Metal, types XCKM and XCKL

Variable composition



(1) For more information, see page 6/98.

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

For 3 cable entries tapped Pg 11 plus one 1/2"-14 NPT adapter, add **H7** to the catalog number. Example: ZCKM1 becomes **ZCKM1H7**.

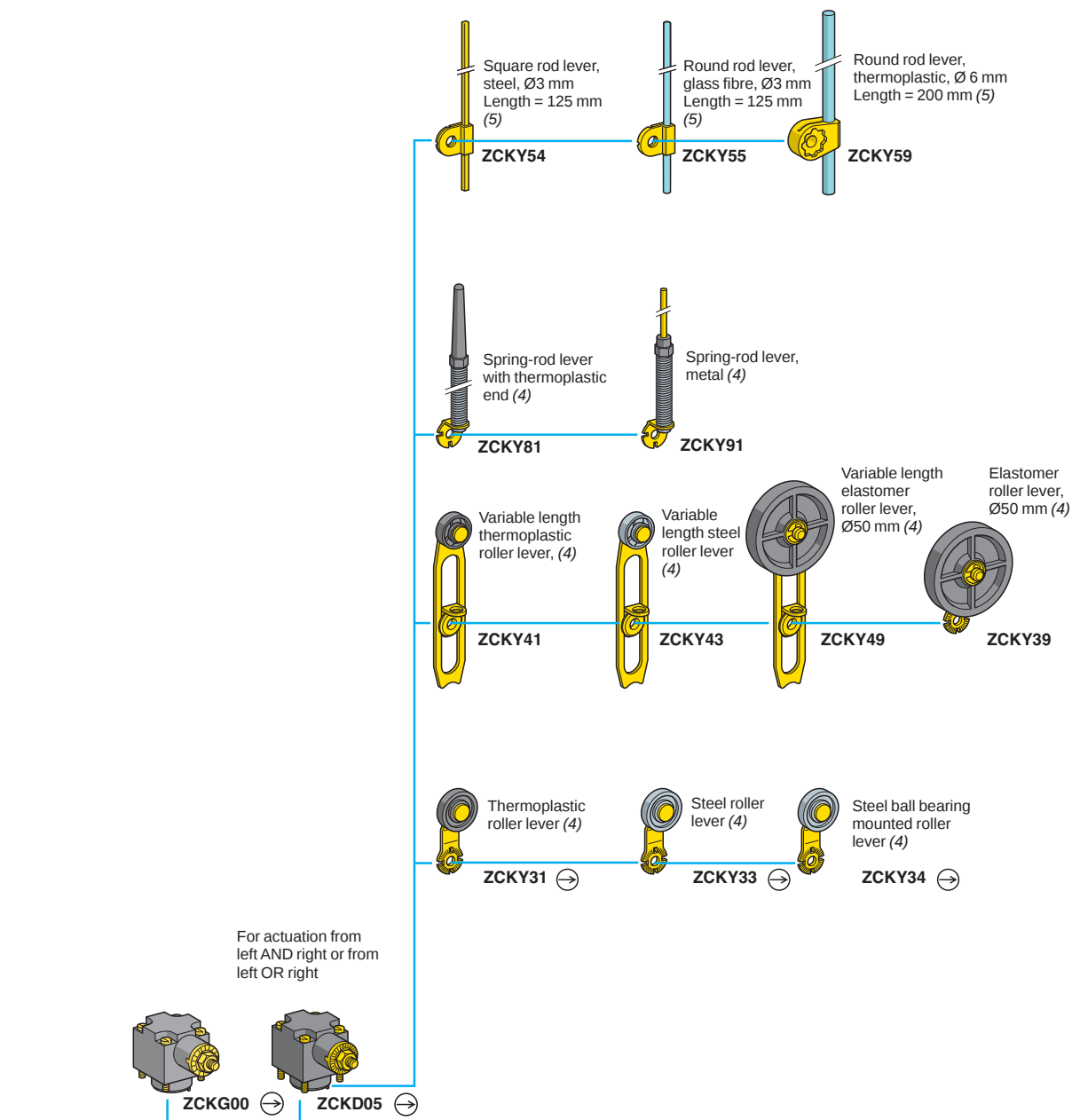
(3) For one cable entry tapped 1/2"-14 NPT, add **H7** to the catalog number. Example: ZCKL1 becomes **ZCKL1H7**.

Limit switches

OsiSense™ XC Standard, Classic format

Metal, types XCKM and XCKL

Variable composition

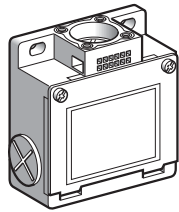


6

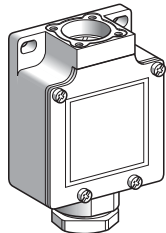
→: head assuring positive opening operation.

(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.



ZCKM●



ZCKL●

6

Bodies with 2-pole contact

With contact block	Wiring diagram	Positive operation	Cable entry	Catalog number	Weight lb (kg)
For limit switches type XCKM					
NC + NO snap action (XE2SP2151)			Pg 11 ISO M20 x 1.5 1/2"-14 NPT (1)	ZCKM1 ZCKM1H29 ZCKM1H7	0.46 (0.210) 0.46 (0.210) 0.46 (0.210)
NC + NO break before make, slow break (XE2NP2151)			Pg 11 ISO M20 x 1.5 1/2"-14 NPT (1)	ZCKM5 ZCKM5H29 ZCKM5H7	0.46 (0.210) 0.46 (0.210) 0.46 (0.210)
NO + NC make before break, slow break (XE2NP2161)			Pg 11 ISO M20 x 1.5 1/2"-14 NPT (1)	ZCKM6 ZCKM6H29 ZCKM6H7	0.46 (0.210) 0.46 (0.210) 0.46 (0.210)
NC + NC simultaneous, slow break (XE2NP2141)			Pg 11 ISO M20 x 1.5 1/2"-14 NPT (1)	ZCKM7 ZCKM7H29 ZCKM7H7	0.46 (0.210) 0.46 (0.210) 0.46 (0.210)
NO + NO simultaneous, slow break (XE2NP2131)		—	Pg 11 ISO M20 x 1.5 1/2"-14 NPT (1)	ZCKM8 ZCKM8H29 ZCKM8H7	0.46 (0.210) 0.46 (0.210) 0.46 (0.210)
NC + NC snap action (XE2SP2141)			Pg 11 ISO M20 x 1.5	ZCKM9 ZCKM9H29	0.46 (0.210) 0.46 (0.210)
For limit switches type XCKL					
NC + NO snap action (XE2SP2151)			Pg 11 1/2"-14 NPT (2)	ZCKL1 ZCKL1H7	0.46 (0.210) 0.46 (0.210)
NC + NO break before make, slow break (XE2NP2151)			Pg 11 1/2"-14 NPT (2)	ZCKL5 ZCKL5H7	0.46 (0.210) 0.46 (0.210)
NO + NC make before break, slow break (XE2NP2161)			Pg 11 1/2"-14 NPT (2)	ZCKL6 ZCKL6H7	0.46 (0.210) 0.46 (0.210)
NC + NC simultaneous, slow break (XE2NP2141)			Pg 11 1/2"-14 NPT (2)	ZCKL7 ZCKL7H7	0.46 (0.210) 0.46 (0.210)
NO + NO simultaneous, slow break (XE2NP2131)		—	Pg 11 1/2"-14 NPT (2)	ZCKL8 ZCKL8H7	0.46 (0.210) 0.46 (0.210)

(1) 3 entries tapped Pg 11, one with metal adapter for 1/2"-14 NPT conduit.

(2) 1 entry tapped 1/2"-14 NPT conduit.

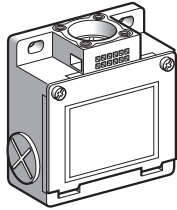
NC contact with positive opening operation.

Limit switches

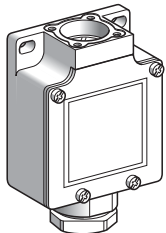
OsiSense™ XC Standard, Classic format

Metal, types XCKM and XCKL

Adaptable subassemblies



ZCKMD3●



ZCKLD3●

Bodies with 3-pole contact

With contact block	Wiring diagram	Positive operation	Cable entry	Catalog number	Weight lb (kg)
For limit switches type XCKM					
NC + NO + NO snap action (XE3SP2151)			Pg 13.5	ZCKMD31	0.46 (0.210)
			ISO M20 x 1.5	ZCKMD31H29	0.46 (0.210)
			1/2"-14 NPT (1)	ZCKMD31H7	0.46 (0.210)
NC + NC + NO snap action (XE3SP2141)			Pg 13.5	ZCKMD39	0.46 (0.210)
			ISO M20 x 1.5	ZCKMD39H29	0.46 (0.210)
			1/2"-14 NPT (1)	ZCKMD39H7	0.46 (0.210)
NC + NC + NO break before make, slow break (XE3NP2141)			Pg 13.5	ZCKMD37	0.46 (0.210)
			ISO M20 x 1.5	ZCKMD37H29	0.46 (0.210)
			1/2"-14 NPT (1)	ZCKMD37H7	0.46 (0.210)
NC + NO + NO break before make, slow break (XE3NP2151)			Pg 13.5	ZCKMD35	0.46 (0.210)
			ISO M20 x 1.5	ZCKMD35H29	0.46 (0.210)
			1/2"-14 NPT (1)	ZCKMD35H7	0.46 (0.210)
For limit switches type XCKL					
NC + NO + NO snap action (XE3SP2151)			Pg 11	ZCKLD31	0.46 (0.210)
			1/2"-14 NPT (2)	ZCKLD31H7	0.46 (0.210)
NC + NC + NO snap action (XE3SP2141)			Pg 11	ZCKLD39	0.46 (0.210)
			1/2"-14 NPT (2)	ZCKLD39H7	0.46 (0.210)
NC + NC + NO break before make, slow break (XE3NP2141)			Pg 11	ZCKLD37	0.46 (0.210)
			1/2"-14 NPT (2)	ZCKLD37H7	0.46 (0.210)
NC + NO + NO break before make, slow break (XE3NP2151)			Pg 11	ZCKLD35	0.46 (0.210)
			1/2"-14 NPT (2)	ZCKLD35H7	0.46 (0.210)

(1) 3 tapped Pg 13.5 entries, one with metal adapter for 1/2"-14 NPT conduit.

(2) 1 entry tapped 1/2"-14 NPT conduit.

: NC contact with positive opening operation.

Limit switches

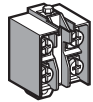
OsiSense™ XC Standard, Classic format

Metal, types XCKM and XCKL

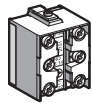
Adaptable subassemblies



XE2SP21●1



XE2NP21●1



XE3●P21●●

Contact blocks

Type of contact	Wiring diagram	For bodies	Positive operation (1)	Catalog number	Weight lb (kg)
2-pole contact					
NC + NO snap action		ZCKM1 ZCKL1	⊙	XE2SP2151	0.04 (0.020)
NC + NO break before make, slow break		ZCKM5 ZCKL5	⊙	XE2NP2151	0.04 (0.020)
NO + NC make before break, slow break		ZCKM6 ZCKL6	⊙	XE2NP2161	0.04 (0.020)
NC + NC simultaneous, slow break		ZCKM7 ZCKL7	⊙	XE2NP2141	0.04 (0.020)
NO + NO simultaneous, slow break		ZCKM8 ZCKL8	—	XE2NP2131	0.04 (0.020)
NC + NC snap action		ZCKM9	⊙	XE2SP2141	0.04 (0.020)
3-pole contact					
NC + NO + NO snap action		ZCKMD31 ZCKLD31	⊙	XE3SP2151	0.08 (0.035)
NC + NC + NO snap action		ZCKMD39 ZCKLD39	⊙	XE3SP2141	0.08 (0.035)
NC + NC + NO break before make, slow break		ZCKMD37 ZCKLD37	⊙	XE3NP2141	0.08 (0.035)
NC + NO + NO break before make, slow break		ZCKMD35 ZCKLD35	⊙	XE3NP2151	0.08 (0.035)

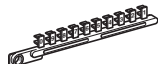
(1) ⊙ : NC contact with positive opening operation or subassembly assuring positive opening operation.

Accessories for limit switches type XCKM

Description	Sold in lots of	Unit catalog number	Weight lb (kg)
Tap-off terminal for cabling continuity	1	XCKZ09	0.02 (0.010)
Clip-in markers (strips of 10 numbers: 0 to 9) Other markers, consult the Customer Care Center.	25	AB1R11	0.004 (0.002)
Adapter, Pg 11 to 1/2"-14 NPT conduit (used with XCKM only)	10	DE9RA1012	0.11 (0.050)
Adapter, Pg 13.5 to 1/2"-14 NPT conduit (used with XCKML only)	10	DE9RA1212	0.11 (0.050)
Other versions	Gold flashed contacts. Consult the Customer Care Center.		



XCKZ09

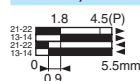


AB1R11

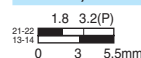
DE9RA1012
or
DE9RA1212

Heads ZCK D10, D109 with body

ZCKM1, L1



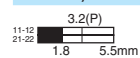
ZCKM5, L5



ZCKM6, L6



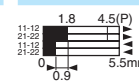
ZCKM7, L7



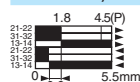
ZCKM8, L8



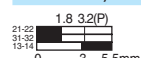
ZCKM9



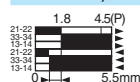
ZCKMD39, LD39



ZCKMD37, LD37



ZCKMD31, LD31

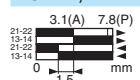


ZCKMD35, LD35



Heads ZCK D02, D029 with body

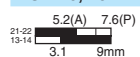
ZCKM1, L1



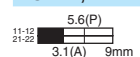
ZCKM5, L5



ZCKM6, L6



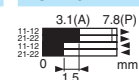
ZCKM7, L7



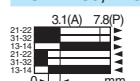
ZCKM8, L8



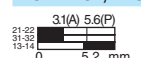
ZCKM9



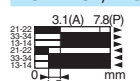
ZCKMD39, LD39



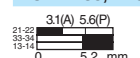
ZCKMD37, LD37



ZCKMD31, LD31

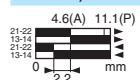


ZCKMD35, LD35

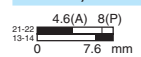


Heads ZCK D21, D23, D219, D239 with body

ZCKM1, L1



ZCKM5, L5



ZCKM6, L6



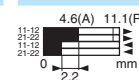
ZCKM7, L7



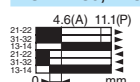
ZCKM8, L8



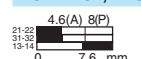
ZCKM9



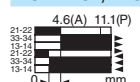
ZCKMD39, LD39



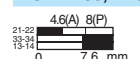
ZCKMD37, LD37



ZCKMD31, LD31

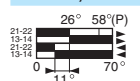


ZCKMD35, LD35

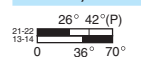


Heads ZCK D15, D16, D17 with body

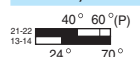
ZCKM1, L1



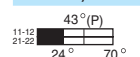
ZCKM5, L5



ZCKM6, L6



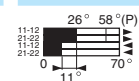
ZCKM7, L7



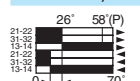
ZCKM8, L8



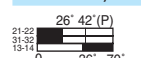
ZCKM9



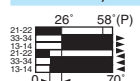
ZCKMD39, LD39



ZCKMD37, LD37



ZCKMD31, LD31

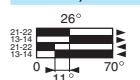


ZCKMD35, LD35

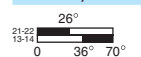


Heads ZCK D41, D59, D81, D91 with body

ZCKM1, L1



ZCKM5, L5



ZCKM6, L6



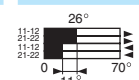
ZCKM7, L7



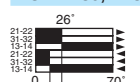
ZCKM8, L8



ZCKM9



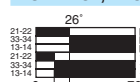
ZCKMD39, LD39



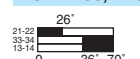
ZCKMD37, LD37



ZCKMD31, LD31

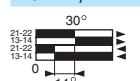


ZCKMD35, LD35

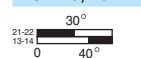


Heads ZCK D06, D08 with body

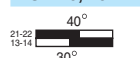
ZCKM1, L1



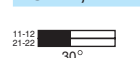
ZCKM5, L5



ZCKM6, L6



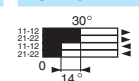
ZCKM7, L7



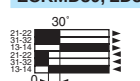
ZCKM8, L8



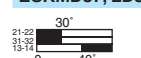
ZCKM9



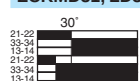
ZCKMD39, LD39



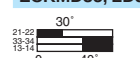
ZCKMD37, LD37



ZCKMD31, LD31



ZCKMD35, LD35



Contact operation

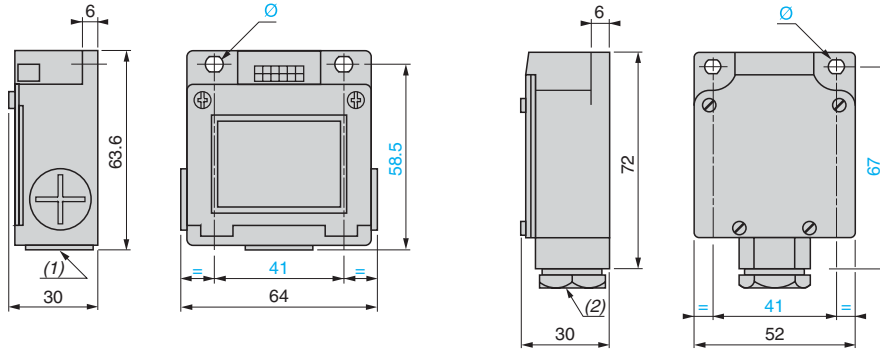
■ closed
□ open

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

Bodies with contacts

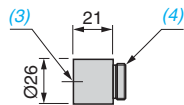
ZCKM1, M5, M6, M7, M8, M9, MD3●, MD3H●29, MD3●H7
ZCKM1H29, M5H29, M6H29, M7H29, M8H29, M9H29
ZCKM1H7, M5H7, M6H7, M7H7, M8H7

ZCKL1, L5, L6, L7, L8, LD3●
ZCKL1H7, L5H7, L6H7, L7H7, L8H7, LD3●H7



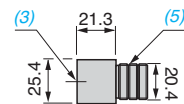
Adapter, Pg 11 to 1/2"-14 NPT conduit (supplied with ZCKM●●H7)

DE9RA1012



Adapter, Pg 13.5 to 1/2"-14 NPT conduit (supplied with ZCKMD●●H7)

DE9RA1212



(1) 3 tapped entries for ISO M20 x 1.5 or Pg 11 cable connector (ZCKM●●) or Pg 13.5 cable connector (ZCKMD●●).

(2) Incorporated cable connector or tapped 1/2"-14 NPT (H7 version).

Ø: 2 elongated holes Ø5.2 x 6.2

(3) Tapped entry for 1/2"-14 NPT conduit.

(4) Pg 11 threaded sleeve.

(5) Pg 13.5 threaded sleeve