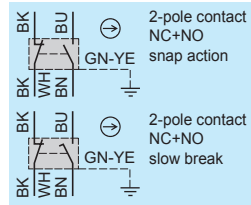
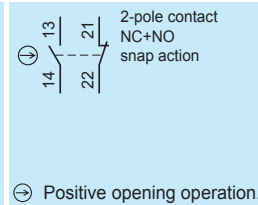


XCMD



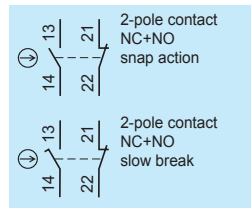
XCKT



Miniature XCMD metal, precabled; mounting by the body or by the head

Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever	Steel roller lever	Variable length thermoplastic roller lever	M12 head metal end plunger	
Mechanical durability (millions of operating cycles) (5)	10	10	10	10	10	10	
Actuation speed (m/s)	0.5	0.5	1.5	1.5	1.5	0.5	
Switches conforming to standard IEC 947-5-1 section 3	⊕	⊕	⊕	⊕	⊕	⊕	
Product certification	CE, UL, CSA, CCC						
Degree of protection conforming to IEC 60529	IP66 and IP67						
Rated operational characteristics (conforming to EN IEC 60947-5-1)	AC-15; B300 (Ue = 240 V, Ie = 1.5 A) / DC-13; R300 (Ue = 250 V, Ie = 0.1 A)						
Mounting centers: mm (in.)	20 (0.79)					M12 x 1	
Body dimensions, W x D x H: mm (in.)	30 x 16 x 50 (1.18 x 0.63 x 1.97)						
Connection	Cable Precabled, adjustable direction, 1 m (other lengths available on request)						
Complete switch	2-pole NC+NO snap action	XCMD2110L1	XCMD2102L1	XCMD2115L1	XCMD2116L1	XCMD2145L1	XCMD21F0L1
	2-pole NC+NO break before make, slow break	XCMD2510L1	XCMD2502L1	XCMD2515L1	XCMD2516L1	XCMD2545L1	XCMD25F0L1
	Connector	M12					
Complete switch	NC+NO snap action (M12-5 pins)	XCMD2110C12	XCMD2102C12	XCMD2115C12	XCMD2116C12	XCMD2145C12	XCMD21F0C12
	1C/O snap action (M12-4 pins) (1)	XCMD2110M12	XCMD2102M12	XCMD2115M12	XCMD2116M12	XCMD2145M12	XCMD21F0M12

XCKP/XCKD



⊕ Positive opening operation.



Compact XCKD metal and XCKP plastic conforming to standard EN 50047

Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	M18 head metal end plunger	M18 head steel roller plunger	
Mechanical durability (millions of operating cycles) (5)	15	10	15	10	10	
Actuation speed (m/s)	0.5	0.5	1	0.5	0.5	
Switches conforming to standard IEC 947-5-1 section 3	⊕	⊕	⊕	⊕	⊕	
Product certification	CE, CSA, CCC, GOST					
Degree of protection conforming to IEC 60529	IP66 and IP67					
Rated operational characteristics (conforming to EN IEC 60947-5-1)	AC-15; A300 (Ue = 240 V, Ie = 3 A) / DC-13; Q300 (Ue = 250 V, Ie = 0.27 A)					
Cable entry	1 tapped entry for 1/2"-14 NPT conduit (3) or M12 connector					
Mounting centers: mm (in.)	20 (0.79)	20 (0.79)	20 (0.79)	M18 x 1	M18 x 1	
Body dimensions, W x D x H: mm (in.)	31 x 30 x 65 (1.22 x 1.18 x 2.56)					
Metal switches						
Complete switch	2-pole NC+NO snap action	XCKD2110N12	XCKD2102N12	XCKD2121N12	XCKD21H0N12	XCKD21H2N12
	2-pole NC+NO break before make, slow break	XCKD2510N12	XCKD2502N12	XCKD2521N12	XCKD25H0N12	XCKD25H2N12
	2-pole NC+NO snap action (M12-5 pins)	XCKD2110M12	XCKD2102M12	XCKD2121M12	XCKD21H0M12	XCKD21H2M12
Plastic, double insulated switches						
Complete switch	2-pole NC+NO snap action	XCKP2110N12	XCKP2102N12	XCKP2121N12	XCKP21H0N12	XCKP21H2N12
	2-pole NC+NO break before make, slow break	XCKP2510N12	XCKP2502N12	XCKP2521N12	XCKP25H0N12	XCKP25H2N12
	2-pole NC+NO snap action (M12-4 pins)	XCKP2110M12	XCKP2102M12	XCKP2121M12	XCKP21H0M12	XCKP21H2M12

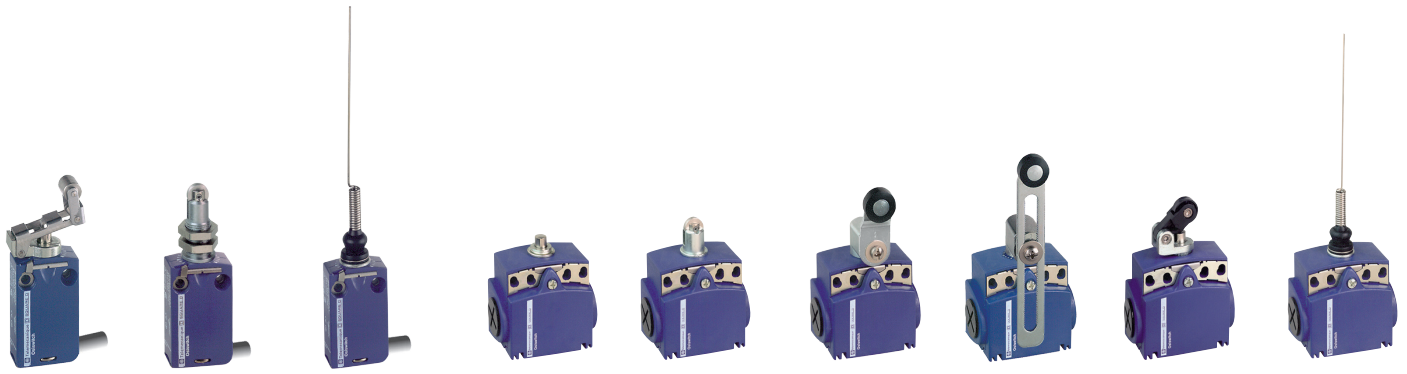
(1) Although their design is identical to the precabled switches, the switches incorporating an M12 4-pin connector cannot be marked with the ⊕ symbol because they are single-pole C/O.

(2) For ISO M16 x 1.5 cable entries, replace **N12** with **P16**. Example: XCKT2110N12 becomes XCKT2110P16.

(3) For Pg 11 cable entries, replace **N12** with **G11**. Example: XCKD2110N12 becomes XCKD2110G11. For other cable entries, see "Customized assembly" on page 8.

(4) For Pg 13.5 cable entries, replace **N12** with **G13**. Example: XCKD2110N12 becomes XCKD2110G13. For other cable entries, see "Customized assembly" on page 9.

(5) Depending on the application.



Compact XCKT plastic, 2 cable entries

Retractable steel roller lever plunger	M12 head steel roller plunger	Cat's whisker	Metal end plunger	Steel roller plunger	Thermoplastic roller lever	Thermoplastic roller lever plunger, horizontal actuation	Cat's whisker	Cat's whisker	
10	10	5	15	10	10	15	5	5	
0.5	0.1	1	0.5	0.5	1.5	1	1	1	
⊖	⊖	–	⊕	⊕	⊕	⊕	–	–	
CE, CSA, CCC, GOST									
IP66 and IP67									
AC-15; A300 (Ue = 240 V, Ie = 3 A) / DC-13; Q300 (Ue = 250 V, Ie = 0.27 A)									
20 (0.79)	M12 x 1	20 (0.79)	20 (0.79) or 40 (1.58)						
58 x 30 x 51 (2.28 x 1.18 x 2.01)									
3 entries tapped ISO Pg 11, supplied with one conduit adapter DE9RA1012, Pg 11 to 1/2"-14 NPT (2)									
XCMD2124L1	XCMD21F2L1	XCMD2106L1	XCKT2110N12	XCKT2102N12	XCKT2118N12	XCKT2145N12	XCKT2121N12	XCKT2106N12	
XCMD2524L1	XCMD25F2L1	XCMD2506L1	–	–	–	–	–	–	
XCMD2124C12	XCMD21F2C12	XCMD2106C12	–	–	–	–	–	–	
XCMD2124M12	XCMD21F2M12	XCMD2106M12	–	–	–	–	–	–	



Application—XCPR and XCDR with manual reset

Thermoplastic roller lever	Variable length Thermoplastic roller lever	Thermoplastic roller lever Ø 50 mm	Cat's whisker	Metal end plunger	Steel roller plunger	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	Thermoplastic roller lever plunger, vertical actuation in 1 direction	Thermoplastic roller lever
10	10	10	5	1	1	1	1	1
1.5	1.5	1.5	1	0.5	0.5	1	1	1.5
⊖	⊖	⊖	–	⊖	⊖	⊖	⊖	⊖
CE, CSA, CCC, GOST								
IP66 and IP67								
AC-15; A300 (Ue = 240 V, Ie = 3 A) / DC-13; Q300 (Ue = 250 V, Ie = 0.27 A)								
1 tapped entry for 1/2"-14 NPT conduit (4)								
20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)
31 x 30 x 95 (1.22 x 1.18 x 3.74)								
XCKD2118N12	XCKD2145N12	XCKD2139N12	XCKD2106N12	XCDR2110N12	XCDR2102N12	XCDR2121N12	XCDR2127N12	XCDR2118N12
XCKD2518N12	XCKD2545N12	XCKD2539N12	XCKD2506N12	XCDR2510N12	XCDR2502N12	XCDR2521N12	XCDR2527N12	XCDR2518N12
XCKD2118M12	XCKD2145M12	XCKD2139M12	XCKD2106M12	–	–	–	–	–
XCKP2118N12	XCKP2145N12	XCKP2139N12	XCKP2106N12	XCPR2110N12	XCPR2102N12	XCPR2121N12	XCPR2127N12	XCPR2118N12
XCKP2518N12	XCKP2545N12	XCKP2539N12	XCKP2506N12	XCPR2510N12	XCPR2502N12	XCPR2521N12	XCPR2527N12	XCPR2518N12
XCKP2118M12	XCKP2145M12	XCKP2139M12	XCKP2106M12	–	–	–	–	–