Limit switches XCE and XCJ ranges Basics line

Catalogue



Simply easy!™



Limit switches XCE and XCJ ranges

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XC range

General

Electromechanical detection

Limit switches are used in all automated installations and also in a wide variety of applications, due to the numerous advantages inherent to their technology. They transmit data to the logic processing system regarding:

- presence/absence,
- passage,
- **■** positioning,
- end of travel.

Simple to install switches, offering many advantages

- From an electrical viewpoint:
- □ galvanic separation of circuits,
- models suitable for low power switching, combined with good electrical durability,
- □ very good short-circuit withstand in coordination with appropriate fuses,
- $\hfill\Box$ total immunity to electromagnetic interference,
- □ high rated operational voltage.

■ From a mechanical viewpoint:

- □ N/C contacts with positive opening operation,
- □ high resistance to the different ambient conditions encountered in industry,
- □ high repeat accuracy, up to 0.01 mm on the tripping points,
- □ simple visible operation.

Mechanical endurance

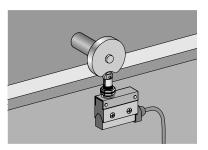
■ Major factors affecting the mechanical endurance of a limit switch:

- operating speed and frequency,
 operating travel (percentage of total travel),
- □ cam angle,
- □ environnment (presence of abrasive dust, corrosive substances, etc).

Applications examples

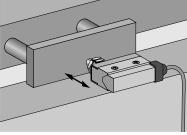
Roller plunger

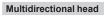
End plunger

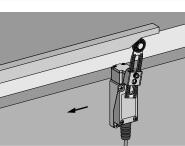


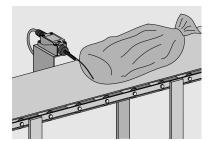
Rotary style head







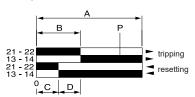




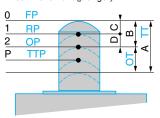
XC range Contact block operation

Contact blocks operation

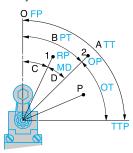
Example : 1 N/C + 1 N/O



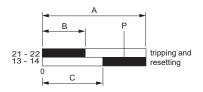
Linear movement (plunger)



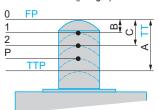
Rotary movement



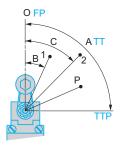
Example: 1 N/C + 1 N/O break before make



Linear movement (plunger)



Rotary movement



Snap action contacts

■ Linear movement (plunger)

Ει	ropean terminology	Terminology according to JIS C 4508
Α	Maximum travel	TT Total travel
В	Tripping travel	_
С	Resetting travel	_
D	Differential travel	_
Р	Point from which positive opening is assured	_
A-E	3 No specific term	OT Over Travel
1	Resetting point	RP Release Position
2	Tripping point	OP Operation Position
0	No specific term	FP Free Position
	No specific term	TTP Total Travel Position

■ Rotary movement

total y movement						
ropean terminology	Terminology according to JIS C 4508					
Maximum travel	TT Total travel					
Tripping travel	PT Pre-Travel					
Resetting travel	_					
Differential travel	MD Movement Differential					
Point from which positive opening is assured	_					
No specific term	OT Over Travel					
Resetting point	RP Release Position					
Tripping point	OP Operation Position					
No specific term	FP Free Position					
No specific term	TTP Total Travel Position					
	ropean terminology Maximum travel Tripping travel Resetting travel Differential travel Point from which positive opening is assured No specific term Resetting point Tripping point No specific term					

Slow break contacts

■ Linear movement (plunger)

Ει	uropean terminology	Terminology according to JIS C 4508
Α	Maximum travel	TT Total travel
В	Tripping and Resetting travel of N/C contact	=
С	Tripping and Resetting travel of N/O contact	_
Р	Point from which positive opening is assured	_
1	Tripping and Resetting point of N/C contact	=
2	Tripping and Resetting point of N/O contact	_
0	No specific term	FP Free Position
_	No specific term	TTP Total Travel Position

■ Rotary movement

Ει	ropean terminology	Terminology according to JIS C 4508					
Α	Maximum travel	TT Total travel					
В	Tripping and Resetting travel of N/C contact	_					
С	Tripping and Resetting travel of N/O contact	_					
Р	Point from which positive opening is assured	_					
1	Tripping and Resetting point of N/C contact	_					
2	Tripping and Resetting point of N/O contact	_					
0	No specific term	FP Free Position					
-	No specific term	TTP Total Travel Position					



XC range Contact ratings

Utilization categories IEC 60947-5-1

Kind of current	Category	Typical application	T _{0,95} (DC) (1) cos φ (AC)
Alternating current	AC-12	Control of resistive loads and solid state loads with isolation by opto couplers	0.9
	AC-13	Control of solid state loads with transformer isolation	0.65
	AC-14	Control of small electromagnetic loads (≤ 72 VA)	0.3
	AC-15	Control of electromagnetic loads (> 72 VA)	0.3
Direct current	DC-12	Control of resistive loads and solid state loads with isolation by opto couplers	1 ms
	DC-13	Control of electromagnets	300 ms maximum
	DC-14	Control of electromagnetic loads having economy resistors in circuit	15 ms

(1) $T_{0.95}$ = time to reach 95 % of the steady state current.

Contact rating designation IEC 60947-5-1

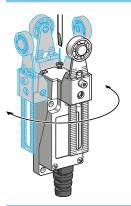
Designa-	Utilization	Conventional	Rated o	perationa	l current	le at rated	d operatir	ng voltage Ue
tion	category	therm. current	120 V	240 V	380 V	480 V	500 V	600 V
A150	AC-15	10 A	6 A	-	-	-	-	_
A300	AC-15	10 A	6 A	3 A	-	-	_	_
A600	AC-15	10 A	6 A	3 A	1.9 A	1.5 A	1.4 A	1.2 A
B150	AC-15	5 A	3 A	-	-	-	-	_
B300	AC-15	5 A	3 A	1.5 A	-	-	_	_
B600	AC-15	5 A	3 A	1.5 A	0.95 A	0.75 A	0.72 A	0.6 A
C150	AC-15	2.5 A	1.5 A	-	-	-	-	_
C300	AC-15	2.5 A	1.5 A	0.75 A	-	-	_	_
C600	AC-15	2.5 A	1.5 A	0.75 A	0.47 A	0.375A	0.35 A	0.3 A
D150	AC-14	1.0 A	0.6 A	-	-	-	-	_
D300	AC-14	1.0 A	0.6 A	0.3 A	-	-	_	_
E150	AC-14	0.5 A	0.3 A	-	-	_	-	_

Designa-	Utilization	Conventional	Rated o _l	perationa	l current	le at rated	l operating voltage Ue
tion	category	therm. current	125 V	250 V	440 V	500 V	600 V
N150	DC-13	10 A	2.2 A	_	_	_	_
N300	DC-13	10 A	2.2 A	1.1 A	_	_	-
N600	DC-13	10 A	2.2 A	1.1 A	0.63 A	0.55 A	0.4 A
P150	DC-13	5 A	1.1 A	_	_	_	_
P300	DC-13	5 A	1.1 A	0.55 A	_	_	_
P600	DC-13	5 A	1.1 A	0.55 A	0.31 A	0.27 A	0.2 A
Q150	DC-13	2.5 A	0.55 A	-	_	_	_
Q300	DC-13	2.5 A	0.55 A	0.27 A	-	-	-
Q600	DC-13	2.5 A	0.55 A	0.27 A	0.15 A	0.13 A	0.1 A
R150	DC-13	1.0 A	0.22 A	-	-	-	-
R300	DC-13	1.0 A	0.22 A	0.1 A	-	-	-

XC range Setting up and mounting advice

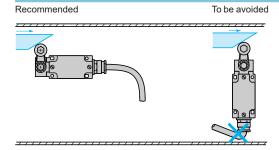
Setting up

Reverse mounting of the operating lever (for limit switches XCE)



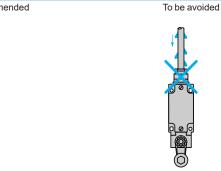
Mounting advice

Sweep of connecting cable

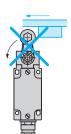


Position of cable-gland

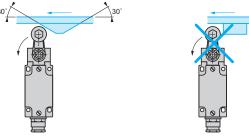
Recommended



Type of cam



To be avoided



Mounting and fixing of limit switches

XCJ110C, XCJ102C and XCJ103C

Recommended





XC range

Degrees of protection provided by enclosures

European standards

Degrees of protection against the penetration of solid bodies, water and personnel access to live parts

The European standard EN 60529 dated October 1991, IEC publication 529 (2nd edition - November 1989), defines a coding system (IP code) for indicating the degree of protection provided by electrical equipment enclosures against accidental direct contact with live parts and against the ingress of solid foreign objects or water.

This standard does not apply to protection against the risk of explosion or conditions such as humidity, corrosive gasses, fungi or vermin.

- The IP code comprises 2 characteristic numerals (e.g. IP 55)
- Any characteristic numeral which is unspecified is replaced by an X (e.g. IP XX)

1st characteristic numeral: corresponds to protection of the equipment against penetration of solid objects and protection of personnel against direct contact with live parts.			penetration of	2 nd characteristic numeral: corresponds to protection of the equipment against penetration of water with harmful effects.			
		Protection of t	he equipment	Protection of personnel			
	0	Non-protected		Non-protected	0	Non-protected	
	1	Ø 50 mm	Protected against the penetration of solid objects having a diame- ter greater than or equal to 50 mm.	Protected against direct contact with the back of the hand (accidental contacts).	1		Protected against vertical dripping water, (condensation)
	2	Ø 12,5 mm	Protected against the pe- netration of solid objects having a diameter greater than or equal to 12.5 mm.	Protected against direct finger contact.	2	15-1	Protected against dripping water at an angle of up to 15°.
	3	Ø 2,5 mm	Protected against the penetration of solid objects having a diame-ter greater than or equal to 2.5 mm.	Protected against direct contact with a Ø 2.5 mm tool.	<u>3</u>	, significant of the state of t	Protected against rain at an angle of up to 60°.
	4	Ø 1 mm	Protected against the penetration of solid objects having a diame-ter > 1 mm.	Protected against direct contact with a Ø 1 mm wire.	4		Protected against splashing water in all directions.
	5 		Dust protected (no harmful deposits).	Protected against direct contact with a Ø 1 mm wire.	5	***	Protected against water jets in all di- rections.
	6 		Dust tight.	Protected against direct contact with a Ø 1 mm wire.	6	***************************************	Protected against powerful jets of water and waves.
		- 6			7	15 cm min.	against the effects of temporary immersion.
					8	m	Protected against the effects of prolonged immersion under speci-fied conditions.



XC range

Degrees of protection provided by enclosures

American standards

Standard UL 50 - Table 6.1 - Enclosures types, defines a coding system for indicating the protection provided by electrical equipment enclosures against the ingress of solid foreign objets and fluids.

Туре	Intended use and description					
1	Indoor use primarily to provide a degree of protection against limited amounts of falling dirt.					
2	Indoor use primarily to provide a degree of protection against limited amounts of falling water and dirt.					
3	Outdoor use primarily to provide a degree of protection against rain, sleet, wind blown dust and damage from external ice formation.					
3R	Outdoor use primarily to provide a degree of protection against rain, sleet, and damage from external ice formation.					
3S	Outdoor use primarily to provide a degree of protection against rain, sleet, wind blown dust and provide for operation of external mechanisms when ice laden.					
4	Indoor or outdoor use primarily to provide a degree of protection against rain, sleet, wind blown dust and provide for operation of external mechanisms when ice laden.					
4X	Indoor or outdoor use primarily to provide a degree of protection against corrosion, wind blown dust and rain, splashing water, hose-directed water, and damage from external ice formation.					
5	Indoor use primarily to provide a degree of protection against setting airbone dust, falling dirt, and dripping noncorrosive liquids.					
6	Indoor or outdoor use primarily to provide a degree of protection against hose-directed water, and the entry of water during occasional temporary submersion at a limited depth and damage from external ice formation.					
6P	Indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during prolonged submersion at a limited depth and damage from external ice formation.					
12, 12K	Indoor use primarily to provide a degree of protection against limited circulation dust, falling dirt, and dripping noncorrosive liquids.					
13	Indoor use primarily to provide a degree of protection against dust, spraying of water, oil and noncorrosive coolant.					

XC range Operating heads

rating heads selection	5 points i	to consider			
	Direction of operation	Operating speed (1)	Positivity (2)	Risk of overtravel damage	Target type
	Plunger sty	rle			
	. 🛕	0.5 m/s	Yes	Very high	■ ↓
	*	0.85 m/s	Yes	High	3
	Lever and r	oller lever plunger			
		0.85 m/s	Yes	Medium	→ 3
	•	0.85 m/s	Yes	Medium	3
	or \$	0.5 m/s	No	High	+ -
	Rotary style	e			3
	<u>cw & ccw</u> (3)	1 m/s	Yes (with non flexible levers only)	Low	→ 3
		1 m/s	Yes (with non flexible levers only)	Low	3
	CW & CCW (3)	1 m/s	Yes (with non flexible levers only)	Low	•
	Multidirecti	ional style			
		0.5…1 m/s	No	Lowest	•
		0.51 m/s	No	Lowest	•

⁽¹⁾ These values are indicative only. For precise information relating to a particular device, refer to the appropriate technical characteristics.
(2) Only when combined with a positive opening contact.
(3) CW = clockwise, CCW = counter clockwise.



XC range

Applications

Medium duty: small compactors, wood working, metal working, food processing...

Light duty: injection moulding, assembly, metal working, packaging...



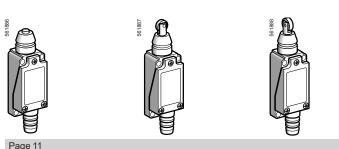


Enclosure (body)		Zinc alloy	Plastic	
		(cover: plastic)	(cover: zinc alloy)	
Conforming to standards		IEC 60947-5-1	IEC 60947-5-1	
Conformities		CE, CCC	(€, CCC	
Body dimensions	in mm (w x h x d)	28 x 64 x 25	54 x 42 x 21	
Head		Linear, rotary or multi-directional	Linear	
		A A	<u></u>	
		GIAUI		
Contact blocks	1 C/O snap action - Form C	_	•	
	1 NO + 1NC snap action - Form Za	•	-	
Degree of protection		IP 65	IP 40, IK 04	
Cabling	Screw terminal	Flexible rubber cable gland suitable for cable Ø 69 mm	Flexible rubber cable gland suitable for cable Ø 8.510.5 mm	
	Pre-cabled	-	-	
	Connector	-	-	
Type references		XCE	XC1	
Pages		10 to 15	16 to 19	

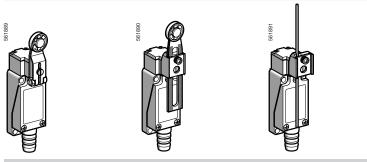
XC range For medium duty applications, XCE

XCE (1 NO + 1 NC form Za)

With head for linear movement (plunger) operators

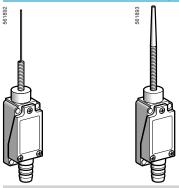


With head for rotary movement (lever) operators

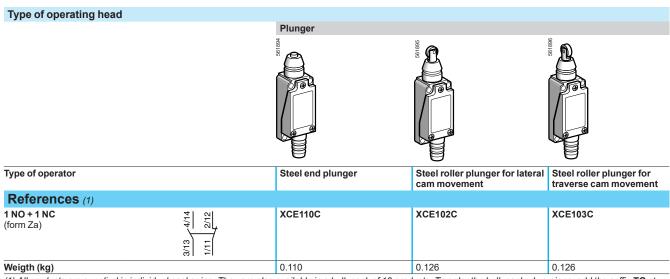


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With head for multi-directional operators



XC range For medium duty applications, XCE



⁽¹⁾ All products are supplied in individual packaging. They are also available in a bulk pack of 10 products. To order the bulk packed versions, add the suffix TQ at the end of product reference. Example XCE110CTQ. Obviously the indivisible order quantity for this version is 10.

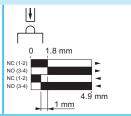
Complementary characteristics not shown under general characteristics (page 10)				
Switch actuation	On end			
Operating force (maxi.)	9 N			
Release force (mini.)	1.5 N			
Operating frequency	120 operations per minute			
Maximum actuation speed	0.5 m/s			
Minimum actuation speed	5 mm/s			
Mechanical durability	10 x 10 ⁶ operations (For XCE102C and XCE103C, actuation by 30° cam: 1 million operations)			
Cabling	Flexible rubber cable gland suitable for cable Ø 69 mm			

Operating diagrams

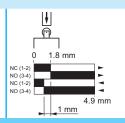
Type of actuation

Operating diagrams Contact operation

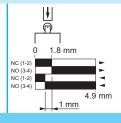
contact closed contact open



XCE102C



XCE103C



Dimensions in mm

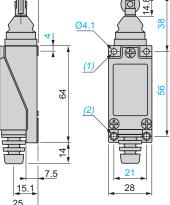
XCE110C Ø4.1 64 (2)4, 7.5 15.1 28

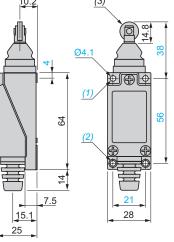
- (1) 2 holes M5 tapped 7 in depth. (2) 2 M5 tapped holes.
- (3) Stainless steel plunger Ø 7.

Ø4.1

(1) 2 holes M5 tapped 7 in depth. (2) 2 M5 tapped holes.

(3) Stainless steel roller Ø 12.5 x 3.8.



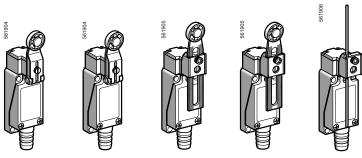


- (3) 14.8 64 7.5 28 15.1 25
- (1) 2 holes M5 tapped 7 in depth. (2) 2 M5 tapped holes.
- (3) Stainless steel roller Ø 12.5 x 3.8.



XC range For medium duty applications, XCE

Type of operating head Rotary



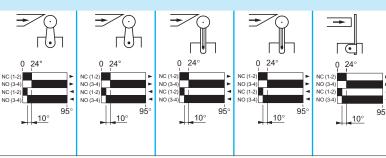
Type of operator		Thermoplastic roller lever	Steel roller lever	Variable length thermoplastic roller lever	Variable length steel roller lever	Round rod Ø 3 mm steel rod
References (1)						
1 NO + 1 NC (form Za)	3/13 4/14	XCE118C	XCE119C	XCE145C	XCE146C	XCE154C
Weigth (kg)		0.152	0.159	0.175	0.181	0.164

Complementary characteristics not shown und	der general characteristics (page 10)		
Switch actuation	By 30° cam By any moving part		
Operating force (maxi.)	7.5 N		
Release force (mini.)	0.5 N		
Operating frequency	120 operations per minute		
Maximum actuation speed	1 m/s		
Minimum actuation speed	9 mm/s for rotary type 5 mm/s for multi-directional type		
Mechanical durability	10 x 10 ⁶ operations		
Cabling	Flexible rubber cable gland suitable for cable Ø 69 mm Maximum clamping capacity 0.751.5 mm² per terminal		

Operating diagrams

Type of actuation

Operating diagrams
Contact operation
contact closed
contact open

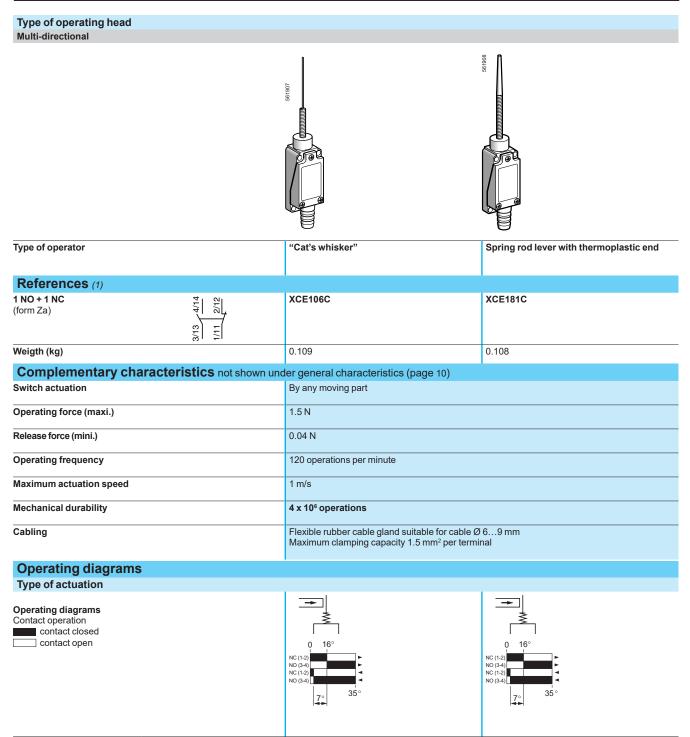


⁽¹⁾ All products are supplied in individual packaging. They are also available in a bulk pack of 10 products. To order the bulk packed versions, add the suffix TQ at the end of product reference. Example XCE118CTQ.

Obviously the indivisible order quantity for this version is 10.



XC range For medium duty applications, XCE



⁽¹⁾ All products are supplied in individual packaging. They are also available in a bulk pack of 10 products. To order the bulk packed versions, add the suffix **TQ** at the end of product reference. Example **XCE181CTQ**.

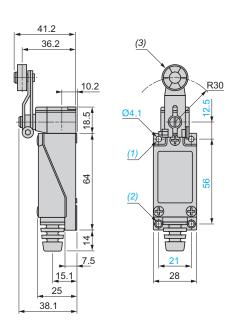
Obviously the indivisible order quantity for this version is 10.

XC range

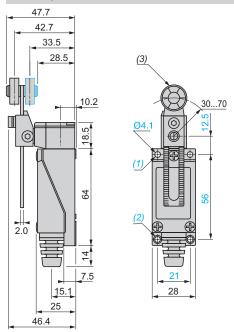
For medium duty applications, XCE

Dimensions in mm

XCE118C, XCE119C

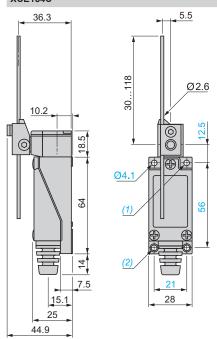


XCE145C, XCE146C



- (1) 2 holes M5 tapped 7 in depth. (2) 2 M5 tapped holes.
- (3) Nylon roller Ø 8 x 7 (roller can be rotated and locked in any position through 360°).
- (1) 2 holes M5 tapped 7 in depth.
- (3) Nylon roller Ø 8 x 7.

XCE154C



- (1) 2 holes M5 tapped 7 in depth. (2) 2 M5 tapped holes.



XC range For medium duty applications, XCE

Dimensions in mm XCE106C XCE181C 10.2 10.2 41.5 *(3)* Ø5.8 Ø4.1 Ø4.1 64 49 7.5 7.5 28 28 15.1 15.1 25 25

- (1) 2 holes M5 tapped 7 in depth. (2) 2 M5 tapped holes. (3) Stainless steel wire Ø 1.2.

- (1) 2 holes M5 tapped 7 in depth. (2) 2 M5 tapped holes. (3) Nylon rod.

XC range

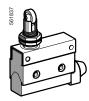
For light to medium duty applications, XCJ

XCJ (single-pole contact 1 C/O form C)

With head for linear movement (plunger) operators, fixing by head or body







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With head for linear movement (lever plunger) operators, fixing by body











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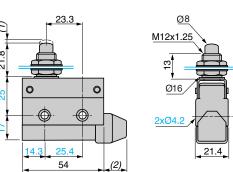
Environnement				
Conforming to standards		IEC 60947-5-1		
Certifications		(€,CCC		
Ambient air temperature		For operation: - 25+ 70 °C, for storage: - 40+ 70 °C		
Vibration resistance	Conforming to IEC 60068-2-6	1055 Hz XCJ110, XCJ102 and XCJ103C: 3.0 mm double amplitude XCJ125, XCJ126 and XCJ127C: 1.5 mm double amplitude XCJ121 and XCJ128C: 0.7 mm double amplitude		
Shock resistance	Conforming to IEC 60068-2-27	10 gn, 11 ms, in the free position		
Degree of protection	Conforming to IEC 60529	IP 40 IK 04		
Materials		Body: plastic, head: metal		
Mechanical durability		10 x 10 ⁶ operations		
Cable entry		Flexible rubber cable gland suitable for cable Ø 8.510.5 mm		
Head mounting		Torque range for XCE110C, XCJ102C and XCJ103C: 2.94.9 N.m / 25.6643.66 lb-in		
Body mounting		Mounting torque range (M4 screws): 1.21.5 N.m / 10.6213.27 N.m		
Contact block cha	aracteristics			
Rated operational characteristics		∼ AC (Ue = 240 V, Ie = 10 A) , Ith = 10 A DC (Ue = 220 V, Ie = 0.3 A)		
Insulation resistance		> 100 mΩ at == 500 V		
Dielectric withstand voltage		~ 1000 V, 50/60 Hz for 1 minute between non-continuous terminals ~ 2000 V, 50/60 Hz between current carrying and non-current carrying parts and between each terminal and ground. Double isolation, CE Class II conforming to IEC 60947-5-1		
Operating frequency		120 operations per minute		
Electrical endurance		> 8 x 10 ⁵ operations (\sim 220 V, 10 A, P.F. = 1)		
Contact resistance		≤ 25 mΩ		
Cabling		M3.5 screw terminals (use cable lug with flexible cable) Torque range: 0.81.2 N.m / 7.0810.62 lb-in		

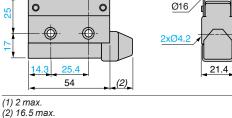
XC range For light to medium duty applications, XCJ

Type of operating head Plunger (fixing by head or body) Type of operator Steel end plunger Steel roller plunger for lateral Steel roller plunger for cam movement traverse cam movement References Single pole 1 C/O XCJ110C XCJ102C XCJ103C 일일 Weight (kg) 0.081 0.086 0.088 Complementary characteristics not shown under general characteristics (page 16) Switch actuation On end Operating force (max.) 4 N 0.98 N Release force (min.) Operating frequency 120 operations per minute **Actuation speed** 0.01 mm/s...50 cm/s (at pin plunger) 10 x 106 operations (for XCJ102C and XCJ103C, actuation by 30° cam: 4 million operations) Mechanical durability M3.5 screw terminals (use cable lug with flexible cable) Torque range: 0.8...1.2 N.m / 7.08...10.62 lb-in Cabling **Operating diagrams** Type of actuation Operating diagrams Contact operation contact closed contact open 0.8

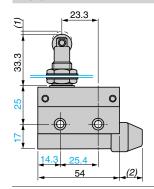
Dimensions in mm

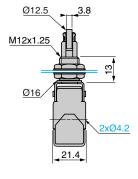
XCJ110C





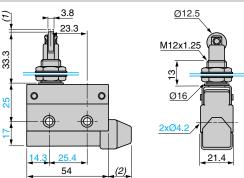
XCJ102C





(1) 2 max. (2)16.5 max.

XCJ103C



(1) 2 max. (2) 16.5 max.

XC range For light to medium duty applications, XCJ

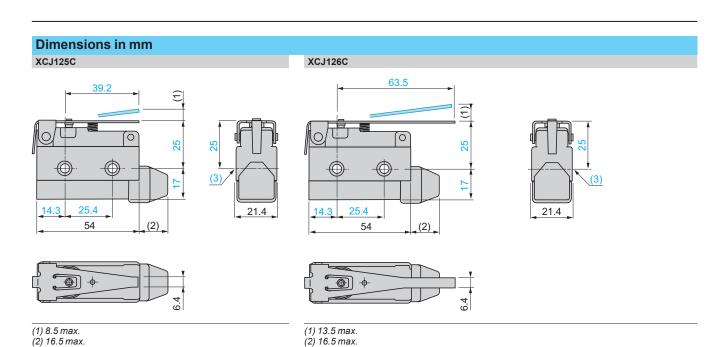
Time of energing head					
Type of operating head Plunger (fixing by body)					
	98818	981838	128192	988189	961839
Type of operator	Short flat lever plunger	Long flat lever plunger	Short flat roller lever plunger	Long flat roller lever plunger	Short flat roller lever plunger, one way operation
References					
Single pole 1 C/O (form C)	XCJ125C	XCJ126C	XCJ127C	XCJ128C	XCJ121C
Weight (kg)	0.052	0.053	0.057	0.057	0.059
Complementary characteristics not shown un	der general chara	cteristics (page	16)		
Switch actuation	On end		By 30° cam		
Operating force (maxi.)	1.9 N	1.3 N	2.3 N	1.6 N	2.4 N
Release force (mini.)	0.59 N	0.39 N	0.78 N	0.49 N	0.98 N
Operating frequency	120 operations per minute				
Actuation speed	0.01 mm/s50 cr	m/s (at pin plunger)			
Mechanical durability	10 x 106 operatio	ns			
Cabling	M3.5 screw terminals (use cable lug with flexible cable) Torque range: 0.81.2 N.m / 7.0810.62 lb-in				
Operating diagrams Type of actuation					
Operating diagrams Contact operation contact closed contact open	0 810.5 C-NC C-NC C-NC C-NC	0 12 16 C-NC C-NC C-NC C-NC C-NC C-NC C-NC C-N	0 6,58,5	0 9.5 13 C-NC C-NC C-NC C-NC D-NC D-NC	0 6,58,5

XC range

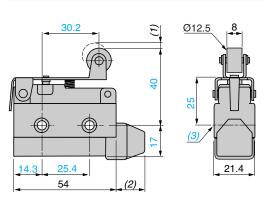
For light to medium duty applications, XCJ

Ø12.5

21.4



(3) 2 x Ø 4.2 XCJ127C



(1) 6.5 max. (2) 16.5 max. (3) 2 x Ø 4.2 XCJ121C 48.35 0 14.3 25.4 54 (2)

(1) 11 max. (2) 16.5 max. (3) 2 x Ø 4.2

XCJ128C

30.2 (1) (1) (2) (3) (3) (3) (4.3) (2) (4.3) (5.4) (5.4) (6.4) (7.4) (8.4) (9.4) (1.

(1) 90° max. (2) 16.5 max. (3) 2 x Ø 4.2

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