Product data sheet
Characteristics

XCKML102
Limit switch, Limit switches XC Standard, XCKML, steel roller plunger, 2x(1NC+1NO), snap action, Pg13

Green Premium™ Product

Main

Range of Product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or Component Type	Limit switch
Device short name	XCKML
Body type	Fixed
Head type	Plunger head
Material	Metal
Body material	Zamak
Fixing Mode	By the body
Movement of operating head	Linear
Type of operator	Spring return roller plunger metal
Type of approach	Lateral approach, 2 directions
Cable entry	3 entries tapped for Pg 13.5 cable gland 0.35…0.47 in (9…12 mm)
Number of poles	4
Contacts type and composition	2 x (1 NC + 1 NO)
Contact operation	Snap action

Complementary

Switch actuation	By 30° cam
Electrical connection	Screw-clamp terminals 1 x 0.34...2 x 1.5 mm²
Contacts insulation form	Zb
Number of steps	1
Positive opening	With
Positive opening minimum force	50 N
Minimum force for tripping	12 N
Minimum actuation speed	0.01 m/min
Maximum actuation speed	1.64 ft/s (0.5 m/s)
[Ithe] conventional enclosed thermal current	10 A AC
[Ui] rated insulation voltage	300 VUL 508 500 V 3)IEC 60947-1 300 VCSA C22.2 No 14
Maximum resistance across terminals	25 MOhm IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	6 KV IEC 60664 6 kV IEC 60947-1
Electrical durability	5000000 Cycles, DC-13, inductive, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, inductive, 24 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive, 48 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C
Mechanical durability	3000000 cycles
Width	3.03 in (77 mm)
Height	3.19 in (81 mm)
Depth	1.42 in (36 mm)

Net Weight	0.89 lb(US) (0.405 kg)
Terminals description ISO n°1	(21-22)NC (13-14)NO

Environment

Shock resistance	50 gn 11 ms EN/IEC 60068-2-27
Vibration resistance	25 gn 10…500 Hz)EN/IEC 60068-2-6
IP degree of protection	IP66 conforming to EN/IEC 60529
IK degree of protection	IK05 EN 50102
Electrical shock protection class	Class I IEC 61140 Class I NF C 20-030
Ambient Air Temperature for Operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40…158 °F (-40…70 °C)
Protective treatment	TC
Product Certifications	CSA UL
Standards	UL 508 EN 60947-5-1 IEC 60204-1 EN 60204-1 CSA C22.2 No 14 IEC 60947-5-1

Ordering and shipping details

Category	22416-LIMIT SWITCHES,IEC,XCKL
Discount Schedule	T
GTIN	3389110158922
Returnability	No
Country of origin	FR

Packing Units

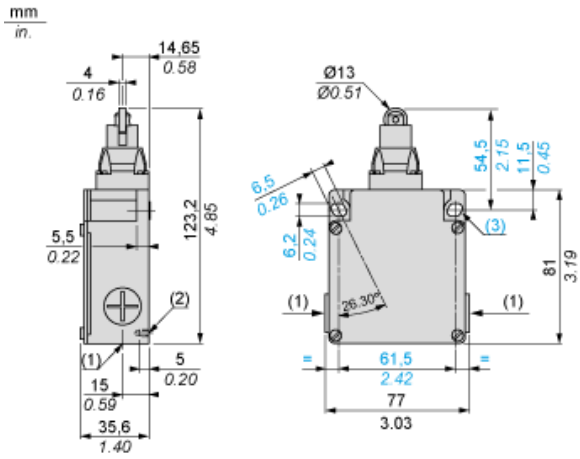|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.91 in (15.0 cm)
Package 1 Width	3.54 in (9.0 cm)
Package 1 Length	2.09 in (5.3 cm)
Package 1 Weight	15.10 oz (428.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	20
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	19.93 lb(US) (9.04 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations

Life Is On | Schneider Electric

Contractual warranty

Warranty	18 months

XCKML102

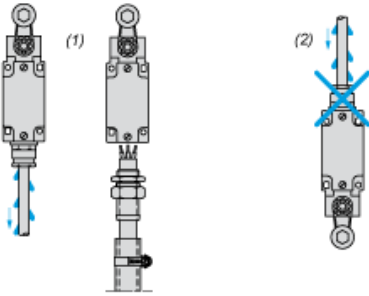## Dimensions

(1) 3 tapped entries for Pg 13.5 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.

Life Is On | Schneider Electric
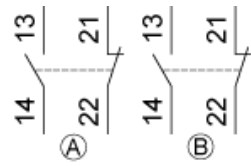
Mounting with Cable Entry

Position of Cable Gland

(1)   Recommended
(2)   To be avoided
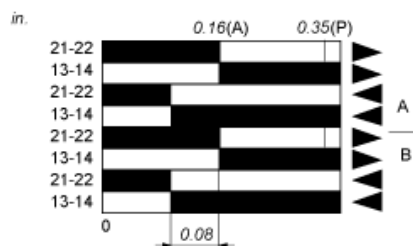
Wiring Diagram

2 x 2-pole NC + NO Snap Action

XCKML102

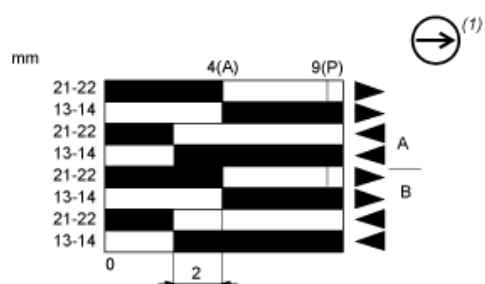## Characteristics of Actuation

Switch Actuation by 30° Cam
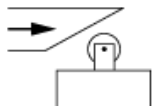
Functionnal Diagram

(P)   Positive opening point
(A)   Cam displacement
(1)   NC contact with positive opening operation
(2)   Closed
(3)   Open
(4)   Tripping
(5)   Resetting