

XCKM510H7

limit switch XCKM - metal end plunger - 1NC
+1NO - slow-break - 1/2NPT



Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKM
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 plunger metal
Type of approach	Vertical approach, 1 direction
Cable entry	3 entries tapped for 1/2" NPT cable gland
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Slow-break, break before make

Complementary

Switch actuation	On end
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.5...2 x 2.5 mm ²
Contacts insulation form	Zb
Number of steps	1
Positive opening	With
Positive opening minimum force	45 N
Minimum force for tripping	15 N
Minimum actuation speed	6 m/min
Maximum actuation speed	0.5 m/s
Repeat accuracy	0.05 mm on the tripping points with 1 million operating cycles
Contact code designation	A300, AC-15 (U _e = 240 V), I _e = 3 A conforming to EN/IEC 60947-5-1 appendix A Q300, DC-13 (U _e = 250 V), I _e = 0.27 A conforming to EN/IEC 60947-5-1 appendix A
[I _{th}] conventional enclosed thermal current	10 A AC
[U _i] rated insulation voltage	300 V conforming to UL 508 500 V (pollution degree 3) conforming to IEC 60947-1 300 V conforming to CSA C22.2 No 14
Maximum resistance across terminals	25 MOhm conforming to IEC 60255-7 category 3
[U _{imp}] rated impulse withstand voltage	IEC 60664 6 kV IEC 60947-1 6 kV
Short-circuit protection	10 A cartridge fuse, type gG
Electrical durability	5000000 Cycles, DC-13, inductive load type, 120 V, 4 W, operating rate <60 cyc/ mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, inductive load type, 24 V, 7 W, operating rate <60 cyc/ mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 48 V, 10 W, operating rate <60 cyc/ mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
Mechanical durability	20000000 cycles
Width	64 mm
Height	64 mm

Depth	30 mm
Terminals description ISO n°1	(13-14)NO (21-22)NC

Environment

Shock resistance	50 gn for 11 ms conforming to EN/IEC 60068-2-27
Vibration resistance	25 gn (f= 10...500 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP66 conforming to EN/IEC 60529
IK degree of protection	IK05 conforming to EN 50102
Electrical shock protection class	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...70 °C
Protective treatment	TC
Product certifications	UL CSA CCC
Standards	CSA C22.2 No 14 IEC 60204-1 IEC 60947-5-1 EN 60947-5-1 UL 508 EN 60204-1

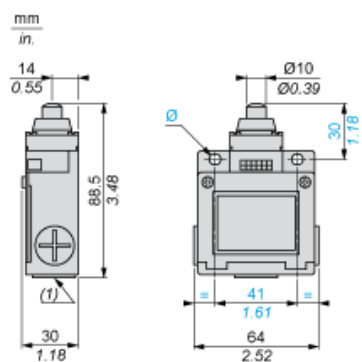
Packing Units

Package 1 Weight	0.245 kg
Package 1 Height	0.010 dm
Package 1 width	0.010 dm
Package 1 Length	0.020 dm

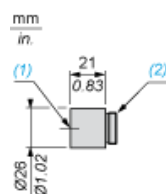
Contractual warranty

Warranty	18 months
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Dimensions



- (1) Tapped entry for 1/2" NPT
Ø : 2 elongated holes Ø 5.2 x 6.2



- (1) Tapped entry for 1/2" NPT conduit
(2) Pg 11 threaded sleeve

Mounting with Cable Entry

Position of Cable Gland



- (1) Recommended
- (2) To be avoided

Wiring Diagram

2-pole N/C + N/O Break before Make, Slow Break

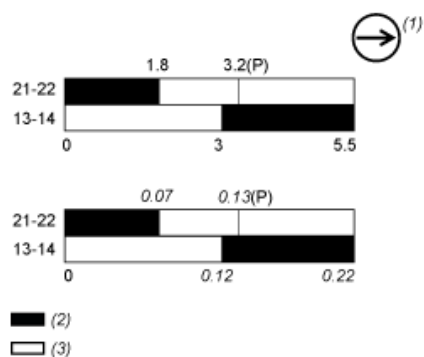


Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



- (P) Positive opening point
(1) NC contact with positive opening operation
(2) Closed
(3) Open