## XCKD21H0P16

limit switch XCKD - M18 metal end plunger - 1NC+1NO - snap - M16





#### Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKD
Sensor design	Compact
Body type	Fixed
Head type	M18 plunger head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the head
Movement of operating head	Linear
Type of operator	Spring return plunger metal
Type of approach	Vertical approach, 1 direction
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

#### Complementary

Complementary		
Switch actuation	On end	
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.342 x 1.5 mm²	
Cable entry	1 entry tapped for M16 x 1.5 cable gland, cable outer diameter: 48 mm	
Contacts insulation form	Zb	
Positive opening	With	
Positive opening minimum force	45 N	
Minimum force for tripping	15 N	
Minimum actuation speed	0.01 m/min	
Maximum actuation speed	0.5 m/s	
Repeat accuracy	0.1 mm on the tripping points with 1 million operating cycles	
Contact code designation	A300, AC-15 (Ue = 240 V), Ie = 3 A, Ithe = 10 A conforming to EN 60947-5-1 A300, AC-15 (Ue = 240 V), Ie = 3 A, Ithe = 10 A conforming to IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to EN 60947-5-1 Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to IEC 60947-5-1 appendix A	
[Ui] 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	
[Uimp] rated impulse withstand voltage	6 KV IEC 60664 6 kV IEC 60947-1	
Short-circuit protection	10 A cartridge fuse, type gG	
Electrical durability	5000000 Cycles, DC-13, 120 V, 4 W, operating rate <60 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, 24 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C	
Mechanical durability	10000000 cycles	

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Width	31 mm	
Height	65 mm	
Depth	30 mm	
Net weight	0.22 kg	
Terminals description ISO n°1	(21-22)NC (13-14)NO	

### Environment

Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27	
Vibration resistance	25 gn (f= 10500 Hz) conforming to IEC 60068-2-6	
IP degree of protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529	
IK degree of protection	IK06 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	-2570 °C	
Ambient air temperature for storage	-4070 °C	
Protective treatment	TC	
Product certifications	CSA CCC UL	
Standards	UL 508 EN 60204-1 CSA C22.2 No 14 IEC 60204-1 IEC 60947-5-1 EN 60947-5-1	

### Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	205 g	
Package 1 Height	3.2 cm	
Package 1 width	3.8 cm	
Package 1 Length	9.5 cm	

### Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☐REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EVEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	€Yes	
Environmental Disclosure	Product Environmental Profile	

#### Contractual warranty

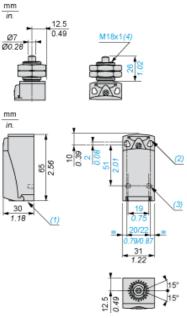
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Warranty	19 months	
vvairanty	18 months	



# Product data sheet **Dimensions Drawings**

# XCKD21H0P16

#### **Dimensions**

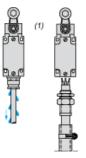


- (1) Tapped entry for M16 x 1.5
  (2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres. (2)
- (3) 2 x Ø 3 holes for support studs, depth 4 mm.
   (4) Fixing nut thickness 3.5 mm.

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### Mounting with Cable Entry

#### Position of Cable Gland





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

### **Panel Mounting**

#### Mounting and Fixing Limit Switches by the Head



- Recommended (1)
- (2) Forbidden

#### Setting-up

### Plunger or Multi-directional Heads



### Product data sheet Connections and Schema

# XCKD21H0P16

### Wiring Diagram

2-pole NC + NO Snap Action



# Product data sheet **Technical Description**

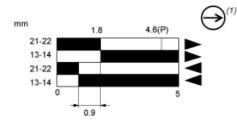
# XCKD21H0P16

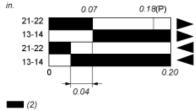
#### **Characteristics of Actuation**

#### Switch Actuation on End



#### **Functionnal Diagram**





- (3) (4) (5)
- Positive opening point
- NC contact with positive opening operation

- (1) NC contact (2) Closed (3) Open (4) Tripping (5) Resetting Resetting