



Limit switch, Limit switches XC Standard, XCKD, roller plunger, 2NC + NO, ATEX/IECEx

XCKD39H2P16EX

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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 Fixing mode By the head Movement of operating head Linear Type of operator Spring return roller plunger steel Switch actuation By 30° cam Type of approach Lateral approach, 2 directions Electrical connection Screw-clamp terminals, clamping capacity: 1 x 0.342 x 0.75 mm² Cable entry number 1 tapped entry for M16 x 1.5 cable gland (included) 48 mm Number of poles 3 Contacts type and composition 2 NC + 1 NO	
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Contacts insulation form Zb	
Contact operation Snap action	
Number of steps 1	
Positive opening With	
Minimum force for tripping 10 N	
Maximum actuation speed 0.5 m/s	
IP degree of protection IP66 conforming to IEC 60529 IP67 conforming to IEC 60529	

Complementary

Body material	Zamak
Head material	Zamak

Positive opening minimum force Minimum actuation speed	
Minimum actuation speed	36 N
minimum actuation speed	0.01 m/min
Contact code designation	B300, AC-15 (Ue = 240 V), Ie = 1.5 A conforming to EN 60947-5-1 B300, AC-15 (Ue = 240 V), Ie = 1.5 A conforming to IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to EN 60947-5-1 R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	6 A AC
[Ui] rated insulation voltage	300 V conforming to UL 508 400 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	4 kV conforming to IEC 60664 4 kV conforming to IEC 60947-1
Short-circuit protection	6 A cartridge fuse, type gG
Electrical durability	5000000 cycles, DC-13, inductive load type, 120 V, 2 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 24 V, 4 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 48 V, 3 W, operating rate <3600 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles
Marking	II2 D-Ex tb IIIC T85°C Db IP66/67
Width	31 mm
Height	65 mm
Depth	30 mm
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
Electrical shock protection class	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
Ambient air temperature for operation	-2060 °C
Protective treatment	тс
Dust zone	Zone 21 - 22
Product certifications	INERIS 04ATEX0014X IEC-Ex INE 17.0020X
Standards	EN/IEC 60079-31 EN/IEC 60079-0
Directives	2014/34/EU - ATEX directive
Directives Packing Units	2014/34/EU - ATEX directive
	2014/34/EU - ATEX directive PCE
Packing Units	
Packing Units Unit Type of Package 1	PCE
Packing Units Unit Type of Package 1 Number of Units in Package 1	PCE 1
Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height	PCE 1 15 cm
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Aug 3, 2023

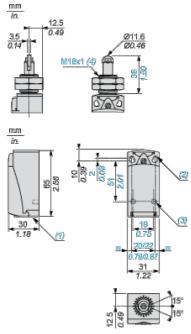
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
California proposition 65	WARNING: This product can expose you 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	
Contractual warranty		

Warranty 18 months

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Dimensions Drawings

Dimensions



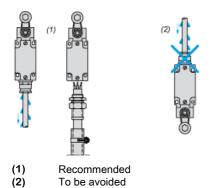
- Tapped entry for M16 x 1.5 2 elongated holes \emptyset 4.3 x 6.3 mm on 22 mm centres, 2 holes \emptyset 4.3 on 20 mm centres. 2 x \emptyset 3 holes for support studs, depth 4 mm. Fixing nut thickness 3.5 mm.
- (1) (2) (3) (4)

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Mounting and Clearance

Mounting with Cable Entry

Position of Cable Gland



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Mounting and Clearance

Panel Mounting

Mounting and Fixing Limit Switches by the Head



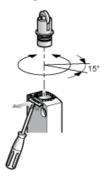
(1) Recommended(2) Forbidden

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Mounting and Clearance

Setting-up

Plunger or Multi-directional Heads

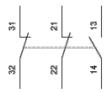


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Connections and Schema

Wiring Diagram

3-pole NC + NC + NO Snap Action



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Technical Description

Characteristics of Actuation

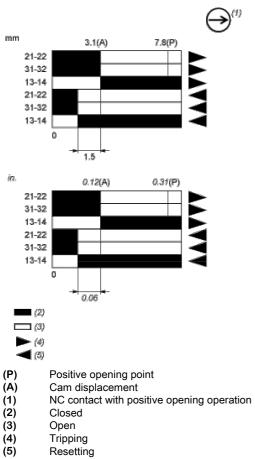
Switch Actuation by 30° Cam



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Technical Description

Functionnal Diagram



- Tripping Resetting

Recommended replacement(s)