XCKD3949P16EX

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



Main

Mairi	
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	Rotary head
Material	Metal
Fixing mode	By the body
Movement of operating head	Rotary
Type of operator	Spring return roller lever thermoplastic variable length, roller diameter 50 mm
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
Contacts insulation form	Zb
Contact operation	Snap action
Number of steps	1
Positive opening	With
Minimum torque for tripping	0.1 N.m
Maximum actuation speed	1.5 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 torque	0.25 N.m
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

50 gn for 11 ms conforming to IEC 60068-2-27	
25 gn (f= 10500 Hz) conforming to IEC 60068-2-6	
Class I conforming to IEC 61140 Class I conforming to NF C 20-030	
-2060 °C	
TC	
Zone 21 - 22	
INERIS 04ATEX0014X[RETURN]IEC-Ex INE 17.0020X	
EN/IEC 60079-31 EN/IEC 60079-0	
2014/34/EU - ATEX directive	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	15 cm	
Package 1 Width	14 cm	
Package 1 Length	5 cm	
Package 1 Weight	239 g	

Offer Sustainability

phthalate (DINP), which is known to the State of California to caus and Di-isodecyl phthalate (DIDP), which is known to the State of 0	Green Premium prod	able offer status	Premium product	
phthalate (DINP), which is known to the State of California to cause and Di-isodecyl phthalate (DIDP), which is known to the State of Course to cause birth defects or other reproductive harm. For more inform www.P65Warnings.ca.gov	No need of specific r	ity Profile	No need of specific recycling operations	
For all Reach Rohs enquiries contact us at sustainability@tesensors.com	phthalate (DINP), wh and Di-isodecyl phth to cause birth defect	ia proposition 65	NING: This product can expose you to chemicals including: Diisononyl late (DINP), which is known to the State of California to cause cancer, i-isodecyl phthalate (DIDP), which is known to the State of California are birth defects or other reproductive harm. For more information go to P65Warnings.ca.gov	
· or an reason rene or quines contact to at	sustainability@tesen	Reach Rohs enquiries contact us at	nability@tesensors.com	

Contractual warranty

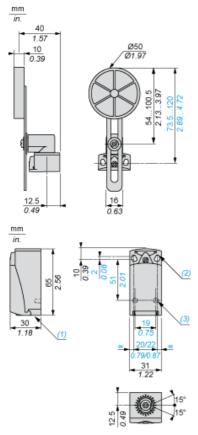
\Marrantı.	10 manths
vvarranty	18 months
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Product data sheet **Dimensions Drawings**

XCKD3949P16EX

Dimensions

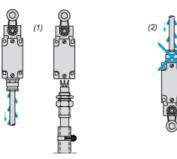


- Tapped entry for M16 x 1.5 2 elongated holes \emptyset 4.3 x 6.3 mm on 22 mm centres, 2 holes \emptyset 4.3 on 20 mm centres. (2)
- 2 x Ø 3 holes for support studs, depth 4 mm.

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Mounting with Cable Entry

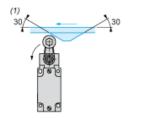
Position of Cable Gland



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

Mounting with Rotary Heads and Levers

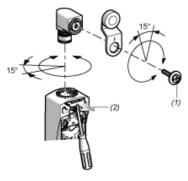
Type of Cam





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

Setting-up with Head ZCE01 and ZCE09



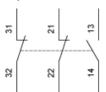
- (1) Tightening torque (Min: 1) (Max: 1.5)
- (2) Tightening torque (Min: 0.8) (Max: 1.2)

Product data sheet Connections and Schema

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Wiring Diagram

3-pole NC + NC + NO Snap Action



Product data sheet **Technical Description**

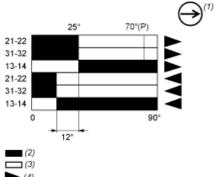
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Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



- Positive opening point
- NC contact with positive opening operation
- Closed
- (1) NC co (2) Closed (3) Open
- (4) Tripping (5) Resetting Resetting