



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

XCKD3945P16EX

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	Rotary head
Material	Metal
Fixing mode	By the body
Movement of operating head	Rotary
Type of operator	Spring return roller lever thermoplastic variable length
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	
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
Vibration resistance Electrical shock protection class	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
Electrical shock protection	Class I conforming to IEC 61140
Electrical shock protection class Ambient air temperature for	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
Electrical shock protection class Ambient air temperature for operation	Class I conforming to IEC 61140 Class I conforming to NF C 20-030 -2060 °C
Electrical shock protection class Ambient air temperature for operation Protective treatment	Class I conforming to IEC 61140 Class I conforming to NF C 20-030 -2060 °C TC
Electrical shock protection class Ambient air temperature for operation Protective treatment Dust zone	Class I conforming to IEC 61140 Class I conforming to NF C 20-030 -2060 °C TC Zone 21 - 22 INERIS 04ATEX0014X
Electrical shock protection class Ambient air temperature for operation Protective treatment Dust zone Product certifications	Class I conforming to IEC 61140 Class I conforming to NF C 20-030 -2060 °C TC Zone 21 - 22 INERIS 04ATEX0014X IEC-Ex INE 17.0020X EN/IEC 60079-31
Electrical shock protection class Ambient air temperature for operation Protective treatment Dust zone Product certifications Standards	Class I conforming to IEC 61140 Class I conforming to NF C 20-030 -2060 °C TC Zone 21 - 22 INERIS 04ATEX0014X IEC-Ex INE 17.0020X EN/IEC 60079-31 EN/IEC 60079-0
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Electrical shock protection class Ambient air temperature for operation Protective treatment Dust zone Product certifications Standards Directives Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height	Class I conforming to IEC 61140 Class I conforming to NF C 20-030 -2060 °C TC Zone 21 - 22 INERIS 04ATEX0014X IEC-Ex INE 17.0020X EN/IEC 60079-31 EN/IEC 60079-0 2014/34/EU - ATEX directive PCE 1 9.0 cm
Electrical shock protection class Ambient air temperature for operation Protective treatment Dust zone Product certifications Standards Directives Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width	Class I conforming to IEC 61140 Class I conforming to NF C 20-030 -2060 °C TC Zone 21 - 22 INERIS 04ATEX0014X IEC-Ex INE 17.0020X EN/IEC 60079-31 EN/IEC 60079-0 2014/34/EU - ATEX directive PCE 1 9.0 cm 9.5 cm
Electrical shock protection class Ambient air temperature for operation Protective treatment Dust zone Product certifications Standards Directives Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width Package 1 Length	Class I conforming to IEC 61140 Class I conforming to NF C 20-030 -2060 °C TC Zone 21 - 22 INERIS 04ATEX0014X IEC-Ex INE 17.0020X EN/IEC 60079-31 EN/IEC 60079-0 2014/34/EU - ATEX directive PCE 1 9.0 cm 9.5 cm

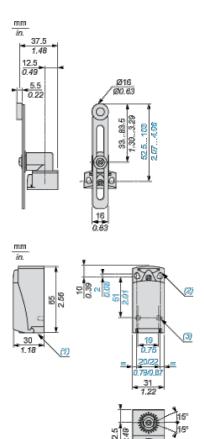
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.782 kg
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
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

Dimensions Drawings

Dimensions



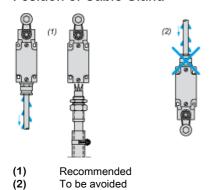
- Tapped entry for M16 x 1.5 2 elongated holes \varnothing 4.3 x 6.3 mm on 22 mm centres, 2 holes \varnothing 4.3 on 20 mm centres. 2 x \varnothing 3 holes for support studs, depth 4 mm.
- (1) (2) (3)

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Mounting and Clearance

Mounting with Cable Entry

Position of Cable Gland

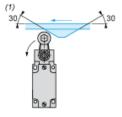


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Mounting and Clearance

Mounting with Rotary Heads and Levers

Type of Cam



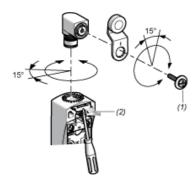


(1) Recommended (2) To be avoided

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Mounting and Clearance

Setting-up with Head ZCE01 and ZCE09



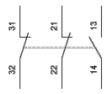
- (1) (2) Tightening torque (Min : 1) (Max : 1.5) Tightening torque (Min : 0.8) (Max : 1.2)

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Connections and Schema

Wiring Diagram

3-pole NC + NC + NO Snap Action

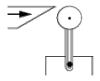


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Technical Description

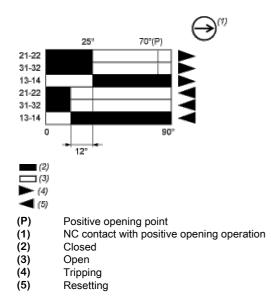
Characteristics of Actuation

Switch Actuation by 30° Cam



Technical Description

Functionnal Diagram



Recommended replacement(s)