

XCKN2139P20

Limit switch, Limit switches XC Standard, XCKN, thermoplastic roller lever Ø 50 mm, 1NC+1 NO, snap, M20



Main

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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 | XCKN |
| Sensor design | Compact |
| Body type | Fixed |
| Head type | Rotary head |
| Material | Plastic |
| Body material | Plastic |
| Head material | Plastic |
| Fixing mode | By the body |
| Movement of operating head | Rotary |
| Type of operator | Spring return roller lever thermoplastic roller diameter 50 mm |
| Type of approach | Lateral approach, 2 directions |
| Cable entry | 1 entry tapped for M20 x 1.5 cable gland, cable outer diameter: 7...13 mm |
| Number of poles | 2 |
| Contacts type and composition | 1 NC + 1 NO |
| Contact operation | Snap action |

Complementary

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| Switch actuation | By 30° cam |
| Electrical connection | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm ² |
| Contacts insulation form | Zb |
| Positive opening | With |
| Minimum torque for tripping | 0.1 N.m |
| Maximum actuation speed | 1.5 m/s |
| Contact code designation | A300, AC-15 (U _e = 240 V), I _e = 3 A, I _{the} = 10 A conforming to EN/IEC 60947-5-1 appendix A R300, DC-13 (U _e = 250 V), I _e = 0.1 A conforming to EN/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 |
| [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 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 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 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability | 10000000 cycles |
| Width | 30 mm |
| Height | 126 mm |

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| Depth | 47 mm |
| Net weight | 0.2 kg |
| Terminals description ISO n°1 | (13-14)NO (21-22)NC |

Environment

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| Shock resistance | 45 gn for 11 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 25 gn (f= 10...500 Hz) conforming to IEC 60068-2-6 |
| IP degree of protection | IP65 conforming to IEC 60529 |
| IK degree of protection | IK04 conforming to EN 50102 |
| Overvoltage category | Class II conforming to IEC 61140 Class II 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 | CCC UL CSA |
| Standards | IEC 60204-1 UL 508 EN 60204-1 CSA C22.2 No 14 IEC 60947-5-1 EN 60947-5-1 |

Packing Units

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|------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 102 g |
| Package 1 Height | 11 cm |
| Package 1 width | 16 cm |
| Package 1 Length | 31 cm |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 20 |
| Package 2 Weight | 2.04 kg |
| Package 2 Height | 11 cm |
| Package 2 width | 16 cm |
| Package 2 Length | 31 cm |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 60 |
| Package 3 Weight | 6.881 kg |
| Package 3 Height | 30 cm |
| Package 3 width | 30 cm |
| Package 3 Length | 40 cm |

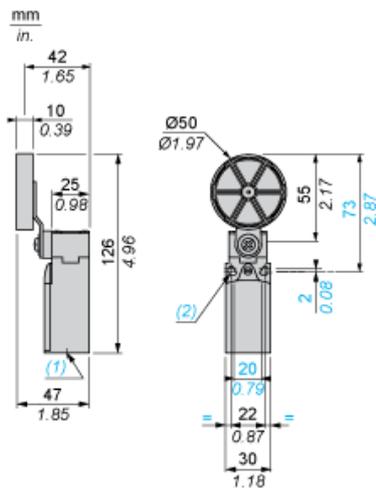
Offer Sustainability

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|----------------------------|--|
| 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 |

Contractual warranty

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| Warranty | 18 months |
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Dimensions



- (1) 1 tapped entry for M20 x 1.5
- (2) \varnothing : 2 elongated holes $\varnothing 4.3 \times 6.3$ on 22 mm centres, 2 holes $\varnothing 4.3$ on 20 mm centres.

Mounting with Cable Entry

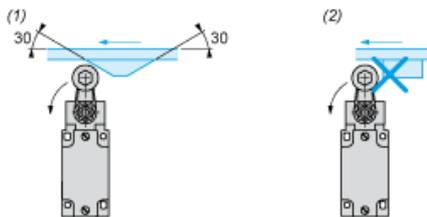
Position of Cable Gland



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

Mounting with Rotary Heads and Levers

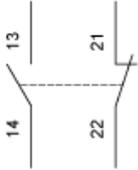
Type of Cam



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

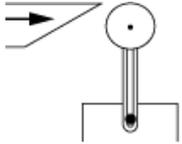
Wiring Diagram

2-pole NC + NO Snap Action

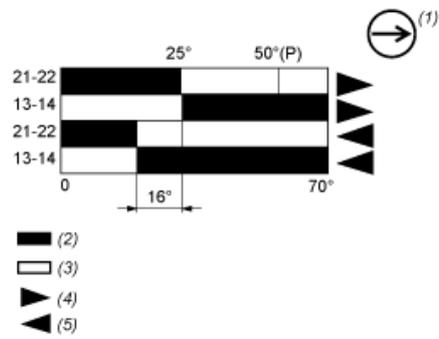


Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



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