

XCMH2103L2

XCMH Limit Switches Miniature Plastic Steel roller plunger for traverse cam approach NC + NO Snap L2



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 | XCMH |
| Sensor design | Miniature |
| Body type | Fixed |
| Head type | Plunger head |
| Material | Plastic |
| Body material | Plastic |
| Head material | Zamak |
| Fixing mode | By the body |
| Movement of operating head | Linear |
| Type of operator | Spring return roller plunger metal |
| Type of approach | Traverse approach, 2 directions |
| 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 | Fixed cable |
| Cable length | 2 m |
| Cable composition | 4 x 0.34 mm ² |
| Wire insulation material | PvR |
| Contacts insulation form | Zb |
| Positive opening | With |
| Positive opening minimum force | 35 N |
| Minimum force for tripping | 7 N |
| Maximum actuation speed | 0.5 m/s |
| Contact code designation | C300, AC-15 (Ue = 240 V), Ie = 0.75 A conforming to IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to IEC 60947-5-1 appendix A |
| [Ui] rated insulation voltage | 300 V (pollution degree 3) conforming to UL 508 300 V (pollution degree 3) conforming to IEC 60947-5-1 300 V (pollution degree 3) 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, 120 V, 1 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, 24 V, 3 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 2 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability | 5000000 cycles |
| Width | 30 mm |

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| Height | 70.4 mm |
| Depth | 16 mm |
| Net weight | 0.08 kg |

Environment

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| Shock resistance | 25 gn for 18 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 5 gn (f= 10...500 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 | IK04 conforming to IEC 62262 |
| Electrical shock protection class | 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 | UL[RETURN]CCC[RETURN]CSA |
| Standards | IEC 60947-5-1 UL 508 IEC 60204-1 CSA C22.2 No 14 |

Packing Units

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|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.000 cm |
| Package 1 Width | 13.000 cm |
| Package 1 Length | 20.000 cm |
| Package 1 Weight | 108.000 g |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 40 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 5.050 kg |

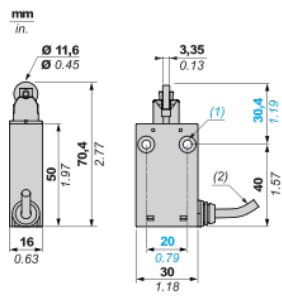
Offer Sustainability

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| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| 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 |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |

Contractual warranty

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| Warranty | 18 months |
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Dimensions



- (1) 2 fixing holes \varnothing 4.2 mm (0.16 in.), counterbored \varnothing 8 mm by 4 mm deep (counterbored \varnothing 0.32 in. by 0.16 in. deep).
- (2) Cable external diameter: 4.2 mm (0.16 in.)

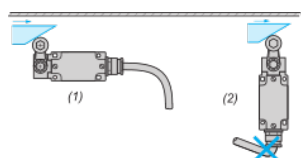
Mounting and Clearance

Mounting: distance required for connection



d : min.15 mm/min.0.59 in.

Sweep of Connecting Cable



(1) : Recommended

(2) : To be avoided

Mounting with Spacers



(1) : 2 spacers supplied with the switch

(2) : 2 screws Ø 4mm (not included)

Wiring diagram

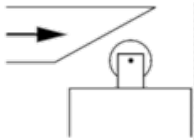
2-pole NC + NO snap action



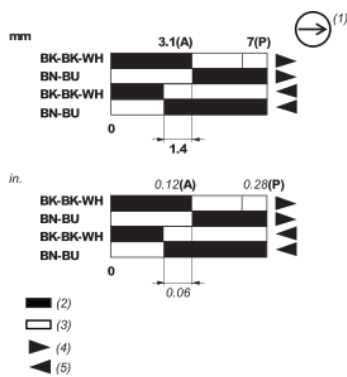
(BK) Black
(WH) White
(BN) Brown
(BU) Blue

Characteristics of Actuation

Switch Actuation by 30° Cam



Functional Diagram



- (P) Positive opening point
- (A) Cam displacement
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting
- (BK) Black
- (BK-WH) Black White
- (BN) Brown
- (BU) Blue