

XCKN2121P20

Limit switch, Limit switches XC Standard,
XCKN, thermoplastic roller lever plung.
Hor, 1NC+1 NO, snap, M20



Main

| | |
|-------------------------------|----------------------------------------------------------------------|
| 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 form E |
| Body type | Fixed |
| Head type | Plunger head |
| Material | Plastic |
| Body material | Plastic |
| Head material | Plastic |
| Fixing Mode | By the body |
| Movement of operating head | Linear |
| Type of operator | Spring return roller lever plunger thermoplastic |
| Type of approach | Lateral approach, 1 direction |
| Cable entry | 1 entry tapped for M20 x 1.5 cable gland 0.28... 0.51 in (7...13 mm) |
| Number of poles | 2 |
| Contacts type and composition | 1 NC + 1 NO |
| Contact operation | Snap action |

Complementary

| | |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation | By 30° cam |
| Electrical connection | Screw-clamp terminals 1 x 0.34...2 x 1.5 mm ² |
| Contacts insulation form | Zb |
| Positive opening | With |
| Positive opening minimum force | 10 N |
| Minimum force for tripping | 6 N |
| Maximum actuation speed | 3.28 ft/s (1 m/s) |
| Contact code designation | A300, AC-15 (Ue = 240 V), Ie = 3 A 10 A IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 0.1 A IEC 60947-5-1 appendix A |
| [Ui] rated insulation voltage | 300 VUL 508 500 V 3)IEC 60947-1 300 VCSA 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 gG |
| Electrical durability | 5000000 Cycles, DC-13, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability | 10000000 cycles |
| Width | 1.18 in (30 mm) |
| Height | 3.70 in (94 mm) |
| Depth | 1.18 in (30 mm) |
| Net Weight | 0.32 lb(US) (0.145 kg) |
| Terminals description ISO n°1 | (13-14)NO (21-22)NC |

Environment

| | |
|---------------------------------------|-------------------------------------------------------------------------------------------|
| Shock resistance | 45 gn 11 ms IEC 60068-2-27 |
| Vibration resistance | 25 gn 10...500 Hz)IEC 60068-2-6 |
| IP degree of protection | IP65 conforming to IEC 60529 |
| IK degree of protection | IK04 conforming to IEC 62262 |
| Overvoltage category | Class II IEC 61140 Class II NF C 20-030 |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C) |
| Ambient Air Temperature for Storage | -40...158 °F (-40...70 °C) |
| Protective treatment | TC |
| Product Certifications | UL[RETURN]CSA[RETURN]CCC |
| Standards | IEC 60204-1 CSA C22.2 No 14 IEC 60947-5-1 IEC 60947-5-1 IEC 60204-1 UL 508 |

Ordering and shipping details

| | |
|-------------------|----------------|
| Category | US1000T22435 |
| Discount Schedule | 000T |
| GTIN | 03389110214291 |
| Returnability | Yes |
| Country of origin | FR |

Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.20 in (3.048 cm) |
| Package 1 Width | 1.20 in (3.048 cm) |
| Package 1 Length | 3.70 in (9.398 cm) |
| Package 1 Weight | 2.40 oz (68.04 g) |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 20 |
| Package 2 Height | 4.33 in (11 cm) |
| Package 2 Width | 5.04 in (12.8 cm) |
| Package 2 Length | 6.69 in (17 cm) |
| Package 2 Weight | 3.13 lb(US) (1.42 kg) |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 80 |
| Package 3 Height | 5.91 in (15 cm) |
| Package 3 Width | 11.81 in (30 cm) |
| Package 3 Length | 15.75 in (40 cm) |
| Package 3 Weight | 13.53 lb(US) (6.135 kg) |

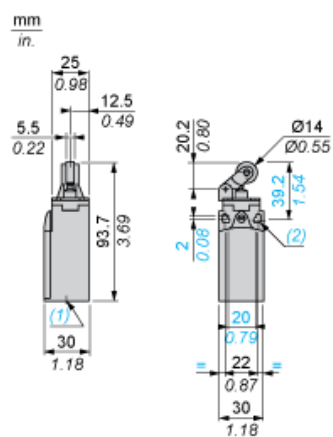
Offer Sustainability

| | |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| 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 |
| Circularity Profile | No need of specific recycling operations |
| 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) 1 tapped entry for M20 x 1.5
(2) Ø: 2 elongated holes Ø 4.3 x 6.3 on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.

Mounting with Cable Entry

Position of Cable Gland



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

Wiring Diagram

2-pole NC + NO Snap Action

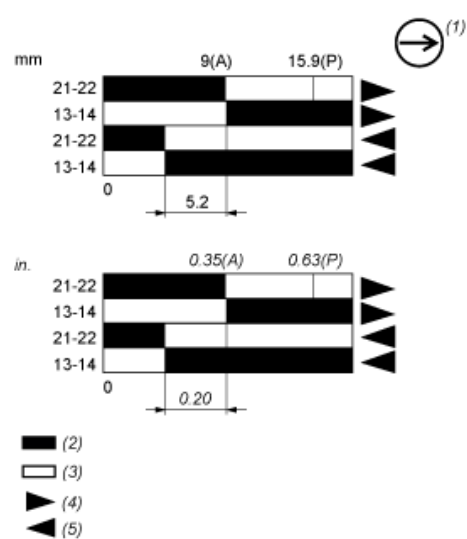


Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



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