

Product data sheet

Characteristics

XCDR2119P20

limit switch XCDR - steel roller lever - 1NC
+1NO - snap - M20



Main

| | |
|-------------------------------|---------------------------------------------------------------------------|
| Range of product | OsiSense XC |
| Series name | Standard format |
| Product or component type | Limit switch |
| Device short name | XCDR |
| Sensor design | Compact |
| Reset | With |
| Body type | Fixed |
| Head type | Rotary head |
| Material | Metal |
| Body material | Zamak |
| Head material | Zamak |
| Fixing mode | By the body |
| Movement of operating head | Rotary |
| Type of operator | Spring return roller lever metal |
| 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 |
| Contacts operation | Snap action |

Complementary

| | |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tracks | 24/40 mm |
| 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 |
| Positive opening minimum torque | 0.25 N.m |
| Minimum torque for tripping | 0.1 N.m |
| Maximum actuation speed | 1.5 m/s |
| Repeat accuracy | 0.1 mm on the tripping points with 1 million operating cycles |
| Contact code designation | A300, AC-15 (Ue = 240 V, Ie = 3 A), Ithe = 10 A conforming to EN/IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V, Ie = 0.27 A) conforming to EN/IEC 60947-5-1 appendix A |
| [Ui] rated insulation voltage | 300 V conforming to UL 508 500 V degree of pollution 3 conforming to EN 60947-1 500 V degree of pollution 3 conforming to IEC 60947-1 300 V conforming to CSA C22.2 No 14 |
| Resistance across terminals | <= 25 MOhm conforming to IEC 60255-7 category 3 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60664 6 kV conforming to IEC 60947-1 |
| Short circuit protection | 10 A by gG cartridge fuse |
| 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 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|-------------------------------|------------------------|
| Width | 31 mm |
| Height | 65 mm |
| Depth | 30 mm |
| Product weight | 0.255 kg |
| Terminals description ISO n°1 | (13-14)NO (21-22)NC |

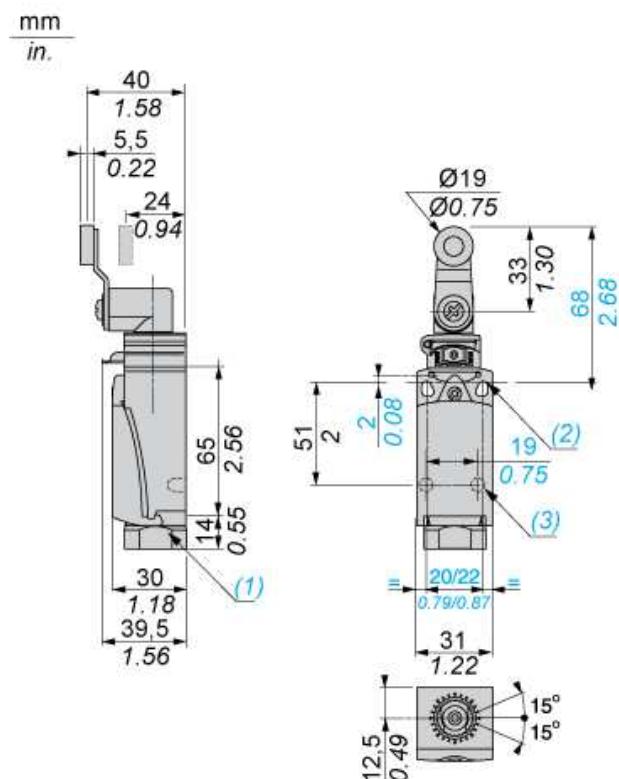
Environment

| | |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Shock resistance | 50 gn (duration = 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 | IP66 conforming to IEC 60529 IP67 conforming to IEC 60529 |
| IK degree of protection | IK04 conforming to EN 50102 |
| Overvoltage category | Class I conforming to IEC 61140 Class I 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 | CSA UL |
| Standards | EN 60204-1 EN 60947-5-1 IEC 60204-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14 |

Offer Sustainability

| | |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1103 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product end of life instructions | Need no specific recycling operations |

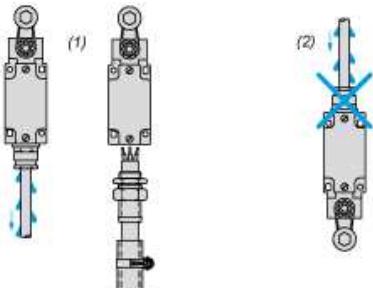
Dimensions



(1) Tapped entry for M20 x 1.5
(2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
(3) 2 x Ø 3 holes for support studs, depth 4 mm

Mounting with Cable Entry

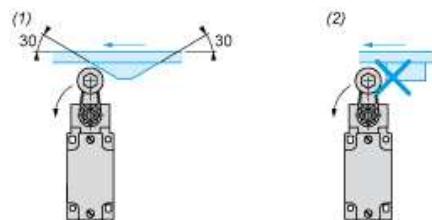
Position of Cable Gland



(1) Recommended
(2) To be avoided

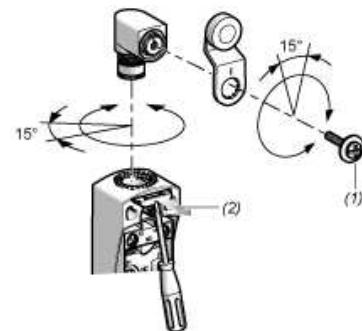
Mounting with Rotary Heads and Levers

Type of Cam



(1) Recommended
(2) To be avoided

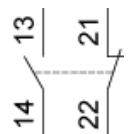
Setting-up with Head ZCE01 and ZCE09



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

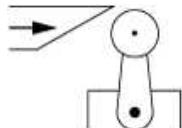
Wiring Diagram

2-pole NC + NO Snap Action

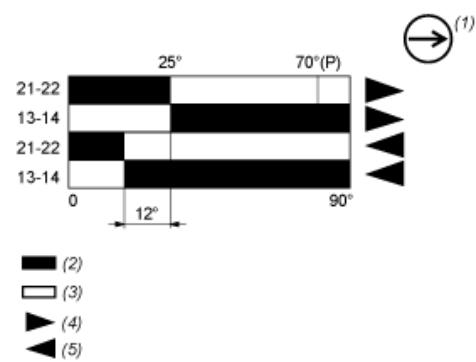


Characteristics of Actuation

Switch Actuation by 30° Cam



Functional Diagram



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