

CR12XS series cylindrical capacitive sensor



Feature description

- One-piece housing with high-brightness LED indicator
- IP68 protection class which is effectively moisture-proof and dust-proof
- Enhance detection distance. Sensitivity adjustment adopts multi-turn potentiometer so as to reach higher adjustment accuracy
- High reliability, excellent EMC design with protection against short circuit, overloaded and reverse polarity
- Widely used in both metal and non-metal (plastic, powder, liquid, etc.) material testing



Model specification

| | | | |
|--------|-------------------|--------|-------------------|
| NPN NO | CR12XSCN08DNOY-E2 | PNP NO | CR12XSCN08DPOY-E2 |
| NPN NC | CR12XSCN08DNCY-E2 | PNP NC | CR12XSCN08DPCY-E2 |

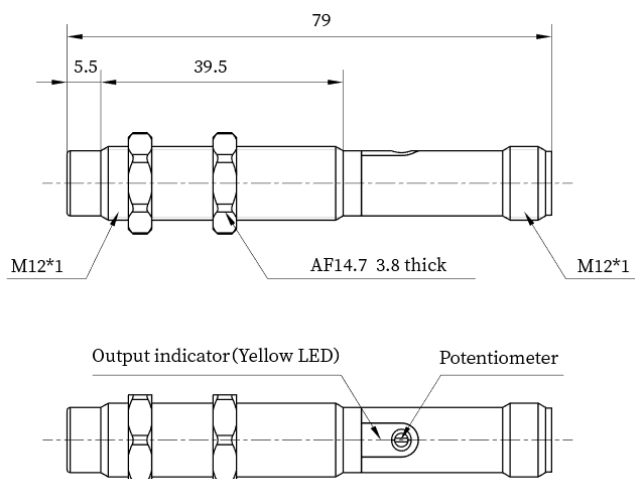
Specifications

| | | | |
|----------------------------|--|-------------------------|--|
| Installation type | Non-flush | Indicator | Output indication:Yellow LED |
| Rated distance Sn | 8mm ^① | Switching frequency | 20Hz |
| Ensure distance Sa | ≤5.76mm | Ambient temperature | When working:-25...70°C(No icing, No condensation) |
| Adjust the distance | 3...12mm | | When storing:-30...80°C(No icing, No condensation) |
| Adjustment method | Single-turn potentiometer | Environment humidity | 35...95%RH(No icing, No condensation) |
| Standard test object | Fe 24*24*1t(Grounded) ^② | Vibration resistant | 10...55Hz,Dual amplitude 1mm(2 hours |
| Supply voltage | 10...30VDC | | each in X, Y, and Z directions) |
| Load current | ≤200mA | Impulse withsand | 30g/11ms,3 times each for X,Y,Z direction |
| Residual voltage | ≤2V | High pressure resistant | 1000V/AC 50/60Hz 60s |
| Consumption current | ≤20mA | Insulation resistance | ≥50MΩ(500VDC) |
| Switch point offset [%/Sn] | ≤±10% | Shape specification | M12*1*79mm |
| Temperature drift [%/Sr] | ≤±20% | Protection degree | IP68 |
| Hysteresis range [%/Sr] | 3...20% | Housing material | PBT |
| Repetitive error [R] | ≤5% | Connection type | M12 Connector |
| Circuit protection | Short circuit protection, Overload protection, Reverse polarity protection | Accessories | M12 nuts×2, Slotted screwdriver, Operation manual |

Note: ①the factory default sensing distance is Sn±10%

②unit:mm

Dimensions



Wiring diagram

