



Inductive Proximity Sensor/Switch Datasheet

CJD10-30K Series Angular Column Type Proximity Sensor

Introduction

- Inductive proximity switch is a device for realizing the non-electrical measurement by inductive winding or the change of coefficient of mutual induction.
- It has high resolution and accuracy for the monitoring and measurement of presence, movement and position of metallic objects.
- The operating distance of the sensor depends on the coil's size as well as the target's shape, size and material.
- It is divided into two categories according to the working state :
NO - Normal Open type,
NC - Normal Close type

Features:

- ◆ Functional type, equivalent to the same type of the other brands.
- ◆ Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- ◆ Newly added current over-load protection; the elements are made of imported chip
- ◆ Long service life, high reliability and strong resistance property to environment
- ◆ Red LED indicates that it's available to detect the sensor operating state
- ◆ IP67 protection structure (IEC specification)

Ordering Part Number:

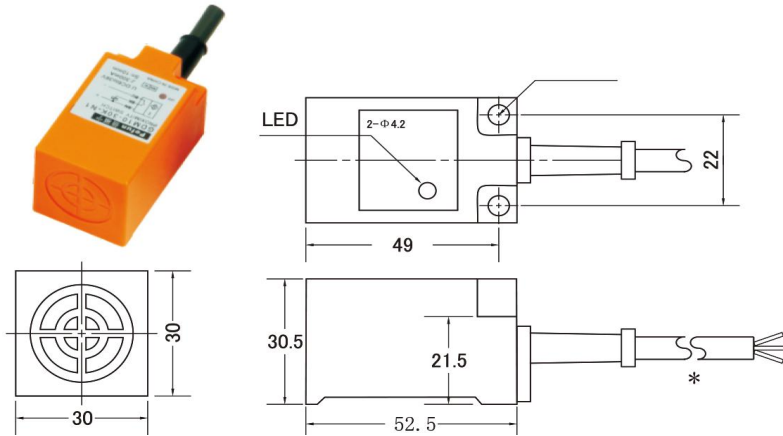
| Model | Detection distance | Switch point function | Working voltage | Connection form |
|--------------|--------------------|-----------------------|-----------------|-----------------|
| CJD10-30K-N1 | 10mm±10% | NPN NO | DC6-36V | NPN NO |
| CJD10-30K-N2 | 10mm±10% | NPN NC | DC6-36V | NPN NC |
| CJD10-30K-N4 | 10mm±10% | NPN NO+NC | DC6-36V | NPN NO+NC |
| CJD10-30K-P1 | 10mm±10% | PNP NO | DC6-36V | PNP NO |
| CJD10-30K-P2 | 10mm±10% | PNP NC | DC6-36V | PNP NC |
| CJD10-30K-P4 | 10mm±10% | PNP NO+NC | DC6-36V | PNP NO+NC |
| CJD10-30K-D1 | 10mm±10% | DC NO | DC10-30V | DC NO |
| CJD10-30K-D2 | 10mm±10% | DC NC | DC10-30V | DC NC |
| CJD10-30K-A1 | 10mm±10% | AC NO | AC90-250V | AC NO |



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|--------------|----------|-------|-----------|---|
| CJD10-30K-A2 | 10mm±10% | AC NC | AC90-250V | AC NC  |
|--------------|----------|-------|-----------|---|

Structure Parameter:



Technical Parameter:

| | |
|-----------------------------------|-------------------------------------|
| Rated action distance (Sn) | 10mm |
| Reliable movement distance (Sa) | 0~8mm |
| Switching frequency (f) | DC 0~400 HZ |
| Switching frequency (f) | AC 50/60HZ |
| Hysteresis (H) | Typical values% |
| Reverse polarity protection | Yes |
| Short circuit protection | Pulse |
| Voltage drop (Ud) | DC ≤1V |
| Voltage drop (Ud) | AC ≤7V |
| Working current (I _L) | 0~300 mA |
| Leakage current (I _r) | 0~0.5mA typical values 0.1uA, @25°C |
| No-load current (I _D) | ≤15mA |
| Indicator light | Red LED |
| environment temperature | -20°C~70°C(248-343K) |
| Connection form | 2m, PVC |
| Conductor cross-sectional area | 0.22mm |
| Shell material | PBT |
| Induction surface | PBT |
| Protection grade | IP67 |
| Standard | EN 60947-1:2004 |



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Remarks:

- Inductive proximity sensors detect the metallic objects.
- The detection distance may fluctuate with the different materials of the detected target. Custom design in the different rated input current and the output voltage are available.
- Both the configuration parameters and the cable length can be customized. Standard cable length 2M.
- If no explicit requirement for the output polarity, the proximity sensor will be supplied based on NPN mode.

WARNING : Incorrect wiring may cause damage to the sensor.

