

Magnetic Proximity Sensor/Switch Datasheet

CSD-4 Magnetic Proximity Sensor

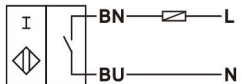
Introduction

- Magnetic switch is also called the magnetron, which is a switching element controlled by the magnetic field signal. Disconnect once non-magnetic.
- Magnetic switches are used to detect circuit or the state of mechanical movement and widely applied in Security Door, household doors, printers, fax machines, telephones and other electronic equipment.
- It is divided into two categories according to the working state :
NO - Normal Open type,
NC - Normal Close type

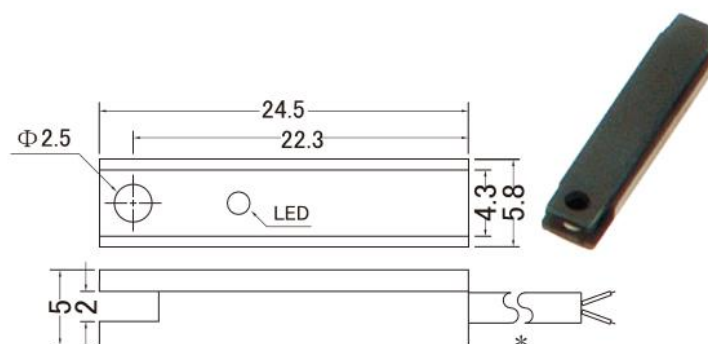
Features:

- ◆ Small size, light weight, easy installation
- ◆ Good installation performance, suitable for all kinds of complex environment
- ◆ Long life-span, high reliability and high stability
- ◆ Sensor induction surface can be made of metal
- ◆ 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
- ◆ IP65 protection structure(IEC specification)

Ordering Part Number:

| Model | Continuous load current | Switch point function | Working voltage | Connection form |
|-------|-------------------------|-----------------------|-----------------|---|
| CSD-4 | 100mA | AC NO | DC/AC5-220V | AC NO  |

Structure Parameter:



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Technical Parameter:

| | |
|-----------------------------------|------------------------------------|
| Dimension | 5.8×5×29mm |
| Hysteresis | Typical value% |
| Reverse polarity protection | Yes |
| Short-circuit protection | Pulse |
| 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 |
| Continuous load current | 100mA |
| Indicator light | Red LED |
| environment temperature | -20°C~70°C(248-343K) |
| Connection form | 2m, PVC |
| Conductor cross-sectional area | 0.14mm ² |
| Shell material | PBT |
| Induction surface | PBT |
| Protection grade | IP65 |
| Standard | EN 60947-1:2004 |

Remarks:

- Magnetic induction type, can detect the position of the plunger in the cylinder.
- 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.