



### Order No.:

CJMD3-8M-NA  
CJMD3-8M-NB  
CJMD3-8M-PA  
CJMD3-8M-PB  
CJMD3-8M-DA  
CJMD3-8M-DB

### Features

- Special optical design on the product's back cover, providing 360° visible indicator lights.
- Dedicated IC, stable ultra-long detection distance, and strong anti-interference capabilities.
- Uses durable, oil-resistant cables.
- Detection surface made of oil-resistant, corrosion-resistant material, offering strong environmental resistance.

### Wiring

#### NPN NO (NA)



#### NPN NC (NB)



#### PNP NO (PA)



#### PNP NC (PB)



#### DC NO (DA)



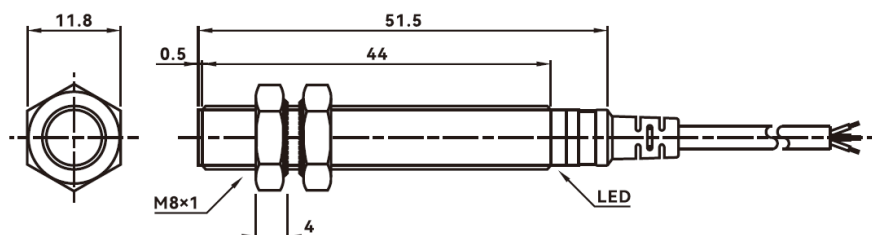
#### DC NC (DB)



### Accessory

Serrated Flange Nuts \*2

### Overall dimension



### Technical Parameters

#### General description

|                                |                 |
|--------------------------------|-----------------|
| Switch point function          | NPN、PNP、D       |
| Rated operating distance Sn    | 3mm             |
| Installation                   | Flush mounting  |
| Standard detector              | 12*12*1t(Q253A) |
| Reliable operating distance Sa | 0...2.1mm       |

#### Rated grade

|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| Rated voltage $U_B$        | DC10...30V(Including fluctuation (p-p) 10%)           |
| Switching frequency $f$    | 1.0KHz                                                |
| Hysteresis range           | ≤ 15% of sensing distance                             |
| Repeatability              | <3% of detection distance                             |
| No load current $I_o$      | <12mA                                                 |
| Voltage drop $U_d$         | NPN/PNP:<2V; DC two-wire<4V                           |
| Working current $I_L$      | <200mA                                                |
| Leakage current            | <100uA                                                |
| Circuit protection         | Reverse polarity protection, short-circuit protection |
| Switching state indication | Red LED indicator                                     |

#### Surrounding environment

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| Ambient temperature  | -25℃...70℃ (No icing,no condensation)                        |
| Temperature effect   | -Within 25℃... 70℃, within 15% of detection distance at +24℃ |
| Ambient humidity     | 35...95%RH (No condensation)                                 |
| Influence of voltage | <3%                                                          |

#### Mechanical properties

|                       |                                                                                    |
|-----------------------|------------------------------------------------------------------------------------|
| Wiring                | 2m standard cable                                                                  |
| Shell material        | Brass plated with pearl nickel                                                     |
| Sensing surface       | PBT                                                                                |
| Protection level      | IP67                                                                               |
| Withstand Voltage     | AC 500V , 50/60Hz 1 minute between the whole charging part and the shell           |
| Insulation resistance | ≥20 MΩ (DC 500 V with a megohmmeter) between the whole charging part and the shell |
| Vibration resistance  | 10 ~ 55 Hz, complex amplitude 1.5mm, 2H in X, Y and Z directions                   |

#### Certification and Standards

|                       |                                      |
|-----------------------|--------------------------------------|
| Product certification | CE CCC CQC ISO9001 ISO14001 ISO45001 |
| Unit weight           | About 40g                            |