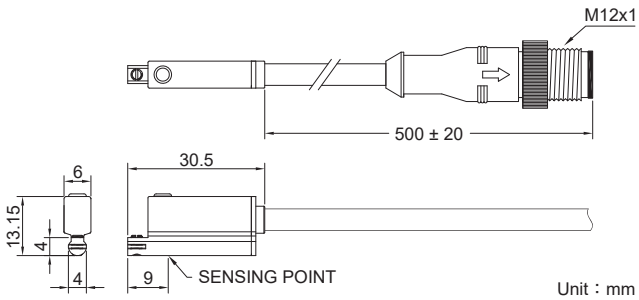
# KT-1001D SERIES Weld-Field Immune Sensor

RoHS

**Magnetic Field Resistant**

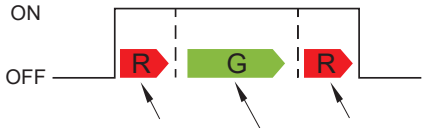
- Dual Color LED allow more precise positioning

## Dimensions




Unit：mm

## SW Out

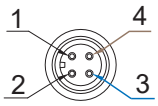



Unstable sensing range　　Unstable sensing range

Stable sensing range

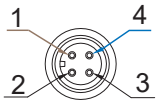
## QD Pinout

- **QD**



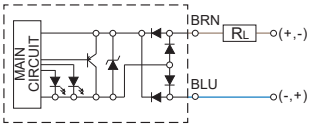

1 : N / C ( No connect )
2 : N / C ( No connect )
3 : BLUE
4 : BROWN

- **EQD**




1 : BROWN
2 : N / C ( No connect )
3 : N / C ( No connect )
4 : BLUE

## Specifications

| MODEL | KT-1001D |
|---|---|
| Connect Diagram / Characteristics |  |
| Wiring Method | 2-Wire Type |
| Switching Logic | Solid State Output, Normally Open |
| Sensor Type | - |
| Operating Voltage | 10 ~ 28 V DC |
| Switching Current | 5 ~ 50 mA max. |
| Contact Rating *1 | 1.5 W max. |
| Current Consumption | - |
| Voltage Drop | 5V max. |
| Leakage Current | 1mA max. |
| Indicator | Red LED : unstable sensing range ; Green LED : stable sensing range |
| Cable | ø 4.8, 2C, PVC |
| Operating Time | 50 ms max. |
| Magnetic Feild Resistance *2 | 16000 A |
| Magnet Requirement *3 | 85 Gauss |
| Temperature Range | -10 ~ 60 ˚C |
| Shock *4 | 50 G |
| Vibration *5 | 9 G |
| Enclosure Classification | IEC 60529 IP67 |
| Protection Circuit *6 | 3, 4 |



**NOTE :**

* 1 : WARNING : Never exceed rating ( Watt = Voltage × Amperage ). Permanent demage to sensor will occur.
* 2 : The operational distance can be 0 mm between KT-1001D and welding gun ( welding conductor or cable ) when the welding current less than 16000 A.
* 3 : Measuring standard target : ø15.5 × ø8 × 5t ( Anisotropy rubber magnet )
* 4 : Sin wave / X , Y , Z 3 directions / 3 times each direction / 11 ms each time.
* 5 : Double amplitude 1.5 mm / 10 Hz ~ 55 Hz ~ 10 Hz ( Sweep 1 min ) / X , Y , Z 3 directions / 1 hour each time.
* 6 : 1 = None / 2 = Short-circuit / 3 = Power Source Reverse polarity / 4 = Surge Suppression

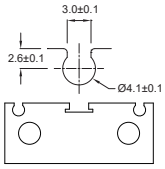
## Ordering Information

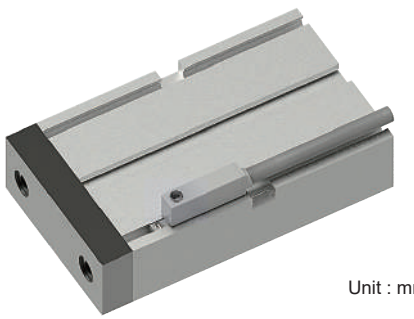
K T - 1 0 0 1 D - ☐

### Cable Length / Connector

Blank: With 3 meter cable
QD: With M12 4Pin male connector

## Groove Dimensions



Unit : mm