BTC-1001D SERIES

Weld-Field Immune Sensor

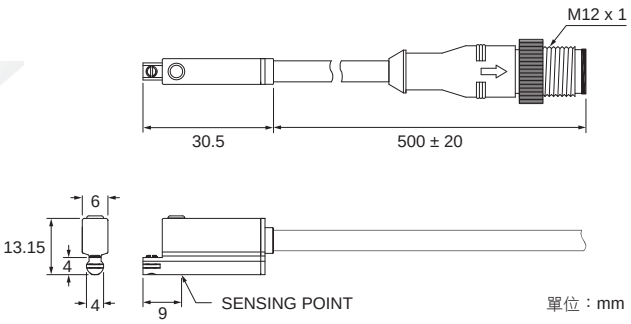
biltec®

RoHS

Magnetic Field Resistant

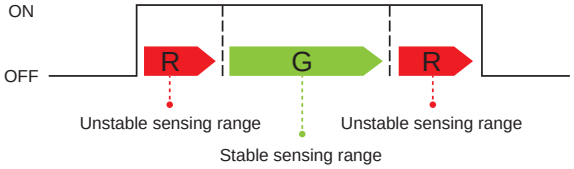
- Dual Color LED allow more precise positioning

Dimensions



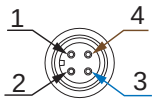
單位：mm

SW Out



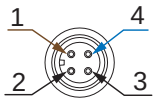
QD Pinout

- **QD**



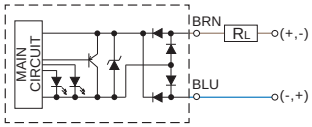
1 : Not Used
2 : Not Used
3 : Blue
4 : Brown

- **EQD**



1 : Brown
2 : Not Used
3 : Not Used
4 : Blue

Specifications

MODEL	BTC-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.
Voltage Drop ※2	5 V max.
Leakage Current ※2	1 mA max.
Indicator	Red LED : unstable sensing range ; Green LED : stable sensing range
Lead Wire	Ø4.8 PVC - 20 AWG (0.5 mm²) - 2 cores
Operating Time	50 ms max.
Magnetic Feild Resistance ※3	16000 A
Magnet Requirement ※2, 4	85 Gauss
Temperature Range	-10 ~ 60 °C
Shock ※5	50 G
Vibration ※6	9 G
Enclosure	IEC 60529 IP67
Protection Circuit ※7	3, 4

NOTE

※1 : WARNING : Never exceed rating (Watt = Voltage × Amperage). Permanent demage to sensor will occur.
※2 : It bases on conditions of voltage 24 V DC, ambient temp. 25 °C and 2 meters cable of sensor. Voltage drop increases in pace with cable length.
※3 : 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.
※4 : Measuring standard target : Ø15.5 × Ø8 × 5t (Anisotropy rubber magnet)
※5 : Sin wave / X, Y, Z 3 directions / 3 times each direction / 11 ms each time.
※6 : Double amplitude 1.5 mm / 10 Hz ~ 55 Hz ~ 10 Hz (Sweep 1 min) / X, Y, Z 3 directions / 1 hour each time.
※7 : 1 = None / 2 = Short-circuit / 3 = Power Source Reverse polarity / 4 = Surge Suppression

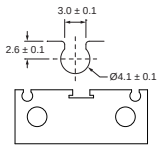
Ordering Information

B T C - 1 0 0 1 - D ☐

Cable Length / Connector

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

Groove Dimensions



Unit : mm