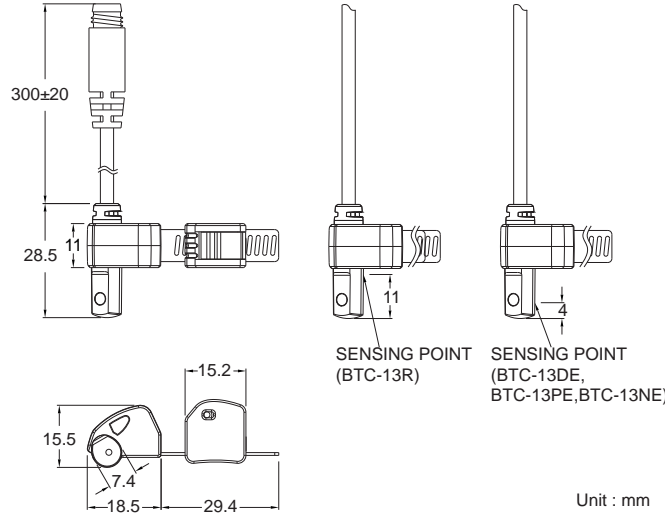


Dimensions

**BTC-13R, BTC-13DE, BTC-13NE, BTC-13PE /
BTC-13R-QD, BTC-13DE-QD, BTC-13NE-QD, BTC-13PE-QD**



Unit : mm

QD Pinout

- **3 wire QD wiring**
 - 1 BROWN (+)
 - 4 BLACK (OUT)
 - 3 BLUE (-)
- **2 wire QD wiring**
 - 1 BROWN (+)
 - 4 NOT USED
 - 3 BLUE (-)
- **2 wire EQD wiring**
 - 1 BROWN (+)
 - 4 BLUE (-)
 - 3 NOT USED

Specifications

MODEL	BTC-13R	BTC-13DE	BTC-13NE	BTC-13PE
Connect Diagram				
Characteristics				
Wiring Method	2-Wire Type		3-Wire Type	
Switching Logic	SPST, Normally Open		Solid State Output, Normally Open	
Sensor Type	Reed Switch		NPN Current Sinking / PNP Current Sourcing	
Operating Voltage	5 ~ 240 V DC / AC		5 ~ 30 V DC	
Switching Current	100 mA max.		200 mA max.	
Contact Rating *1	10 W max.		6 W max.	
Current Consumption	-		6 mA @ 24 V DC max.	
Voltage Drop	3.5 V max.		0.5 V @ 200 mA max.	
Leakage Current	-		0.01 mA max.	
Indicator	Red LED			Green LED
Cable	ø3.3, 2C, PVC		ø3.3, 3C, PVC	
Operating Frequency	200 Hz		1000 Hz max.	
Magnet Requirement *2	55 Gauss		40 ~ 1000 Gauss	
Temperature Range	-10 ~ 70 °C			
Shock *3	30 G		50 G	
Vibration *4	9 G			
Enclosure Classification	IEC 60529 IP67			
Protection Circuit *5	1		3, 4	

NOTE:

*1 : WARNING : Never exceed rating (Watt = Voltage x Amperage).
Permanent damage to sensor will occur.

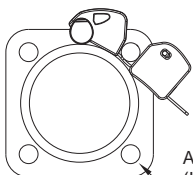
*2 : Measuring standard target : ø15.5 x ø8 x 5t (Anisotropy rubber magnet)

*3 : Sin wave / X , Y , Z 3 directions / 3 times each direction / 11 ms each time.

*4 : Double amplitude 1.5 mm / 10 Hz ~ 55 Hz ~ 10 Hz (Sweep 1 min) / X , Y , Z 3 directions / 1 hour each time.

*5 : 1 = None / 2 = Short-circuit / 3 = Power Source Reverse polarity / 4 = Surge Suppression

Clamps



Applicable rod diameter Ø6 ~ Ø16
(Using ISO Tie-Rod cylinder range Ø32 ~ Ø200)



Hex key Size : 2 mm

Unit : mm