

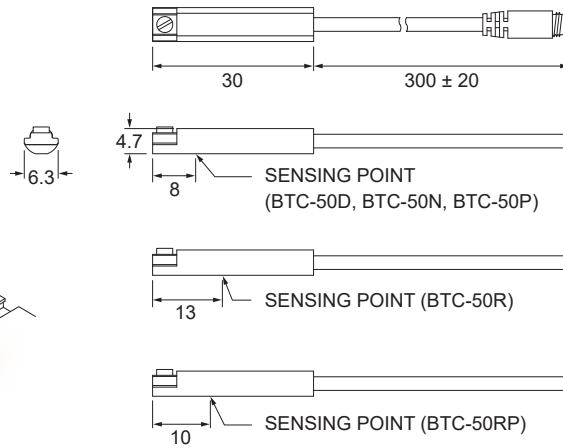
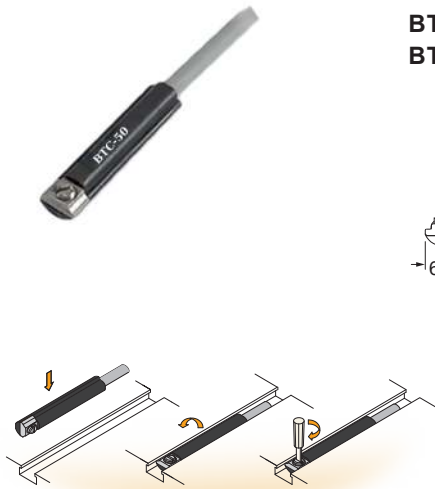
BTC-50 SERIES

biltec[®]



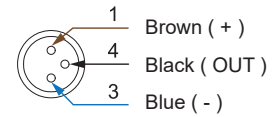
Dimensions

**BTC-50R, BTC-50D, BTC-50N, BTC-50P, BTC-50RP /
BTC-50R-QD, BTC-50D-QD, BTC-50N-QD,
BTC-50P-QD, BTC-50RP-QD**

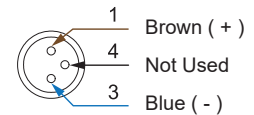


QD Pinout

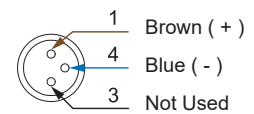
3 wire QD wiring



2 wire QD wiring



2 wire EQD wiring



Specifications

MODEL	BTC-50R	BTC-50D	BTC-50N	BTC-50P	BTC-50RP
Connect Diagram					
Characteristics	2-Wire Type		3-Wire Type		
Wiring Method	2-Wire Type		3-Wire Type		
Switching Logic	SPST, Normally Open	-	Solid State Output, Normally Open		SPST, Normally Open
Sensor Type	Reed Switch	-	NPN Current Sinking	PNP Current Sourcing	Reed Switch
Operating Voltage	5 ~ 240 V DC / AC	10 ~ 28 V DC	10 ~ 30 V DC		10 ~ 30 V DC / AC
Switching Current	100 mA max.	50 mA max.	200 mA max.		500 mA max.
Contact Rating ※1	10 W max.	1.5 W max.	6 W max.		10 W max.
Current Consumption ※2	-		20 mA @ 24 V DC max.		5 mA @ 24 V DC max.
Voltage Drop ※2	3.5 V max.		1.5 V max.		0.1 V @ 100 mA max.
Leakage Current ※2	-	0.8 mA max.	0.05 mA max.		-
Indicator	Red LED			Yellow LED	
Lead Wire	Ø3 PUR - 26 AWG (0.15 mm ²) - 2 cores		Ø3 PUR - 26 AWG (0.15 mm ²) - 3 cores		
Operating Frequency	200 Hz	-	1000 Hz	-	200 Hz
Magnet Requirement ※2, 3	-		70 Gauss		-
Temperature Range	-		-10 ~ 70 °C		-
Shock ※4	30 G	-	50 G	-	30 G
Vibration ※5	-		9 G		-
Enclosure	IEC 60529 IP67				
Protection Circuit ※6	1	2, 4	2, 3, 4		1

NOTE

※1 : WARNING : Never exceed rating (Watt = Voltage × Amperage).
Permanent damage 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 : 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

Groove Dimensions | Clamp / Bracket

