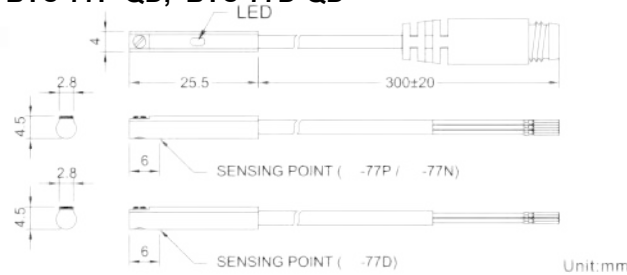# BTC-77 SERIES

biltec®

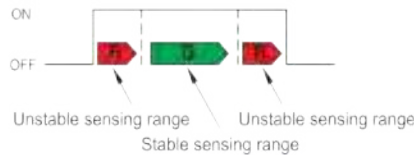CE RoHS UKCA

NEW

DUAL COLOR LED
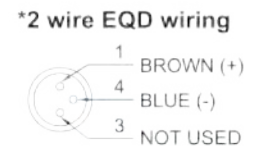
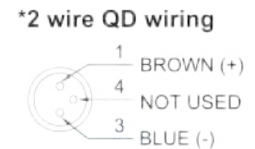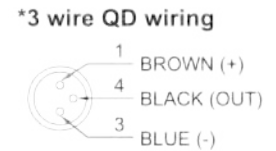Dual Color LED allow more precise positioning

DIMENSIONS

BTC-77N, BTC-77P, BTC-77D, BTC-77N-QD, BTC-77P-QD, BTC-77D-QD

LED

4 · Ø · 2.8 · 25.5 · 300±20

4.5 · 2.8 · 6 · SENSING POINT (-77P /   -77N)

4.5 · 6 · SENSING POINT (-77D)

Unit:mm

SW OUT

ON / OFF

Unstable sensing range   Unstable sensing range
Stable sensing range

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

TYPE		BTC-77D	BTC-77N	BTC-77P
CONNECT DIAGRAM		(diagram)	(diagram)	(diagram)
CHARACTERISTICS				
Wiring Method		2-Wire Type	3-Wire Type	
Switching Logic		Solid State Output, Normally Open		
Sensor Type		-	NPN Current Sinking	PNP Current Sourcing
Operating Voltage		10~28V DC		
Switching Current		80mA max.		
Contact Rating (*1)		2W max.		
Current Consumption		-	10mA @ 24V DC max.	
Voltage Drop		4V max.	1.5V max.	
Leakage Current		1mA max.	0.05mA max.	
Indicator		Red / Green LED		
Cable		ø2.8, 2C, PU	ø2.8, 3C, PU	
Operating Frequency		1000Hz		
Magnet Requirement (*2)		40Gauss		
Temperature Range		-10~60°C		
Shock (*3)		50G		
Vibration (*4)		9G		
Enclosure Classification		IEC 60529 IP67		
Protection Circuit (*5)		2,3,4		

NOTE:
1. WARNING: Never exceed rating (Watt=Voltage x Amperage). Permanent demage to sensor will occur.
2. Measuring standard target: ø15.5Xø8X5t (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 / 10Hz~55Hz~10Hz (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

GROOVE DIMENSIONS

3.05 ± 0.1
2.55 ± 0.1
ø4.25 ± 0.1

Unit:mm