



## Series QTP

General Purpose Pressure Switches



QTP sensing element has excellent temperature properties by adopting a self temperature compensation foil strain gauge. A diaphragm and a pressure port are composed as one body for the prevention of leakage. It is also durable to an instant over pressure. It can control the system without any controller due to the output of a 1 or 2 channel NPN open collector switch.

### Feature

- Electrical pressure switch with no mechanical moving part
- Fast response 1ms
- Measuring range 0~50MPa
- One or two pressure setting points
- Self temperature compensation foil strain gauge
- Stainless steel media-wetted materials

### Applications

- Process control
- Hydraulics & Pneumatic
- Compressor Control
- Chillers
- Refrigeration Equipment

## SPECIFICATIONS

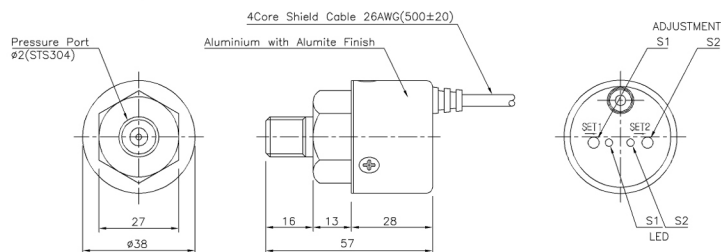
	QTPU	QTPW
<b>Range</b>	0~1, 2, 3, 5, 10, 20, 30, 35, 50MPa (Gauge)	
	-0.1~0, 1, 2, 3, 5, 10, 20, 30, 35, 50MPa (Gauge)	
<b>Performance</b>		
Accuracy		±1%FS
Hysteresis	Hysteresis adjustable(2~10%)	3%FS
Thermal Effect on Zero		±0.1%FS/°C
Thermal Effect on Span		±0.1%FS/°C
Compensated Temperature Range		-10 ~ 70°C
Operating Temperature Range		-20 ~ 80°C
<b>Electrical</b>		
Excitation		11 ~ 28VDC
Output	1 Channel NPN Open Collector	2 Channel NPN Open Collector
Switch Load Current		28V 80mA Max.
Electrical Connection		Cable
<b>Physical</b>		
Proof Pressure		150%FS Max.
Burst Pressure		200%FS Min.
Vibration		49.1m/s <sup>2</sup> {5G}, 10~500Hz
Shock		490m/s <sup>2</sup> {50G}
Pressure port	R(PT)1/8", G(PF)1/8", R(PT)1/4"(Stock), G(PF)1/4", R(PT)3/8"(Stock), G(PF)3/8"	
Media-Wetted Materials	Stainless Steel 304, 630	
Weight	Approx. 150g (include cable 50cm)	

\* Specifications are subject to change without notice

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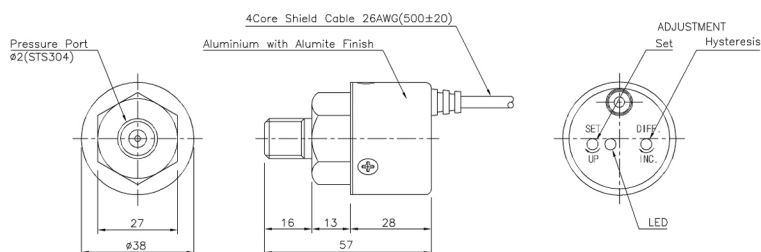
## Dimension

### ► QTPW Type



Wire Color	Connections
Red	Power ⊕
Black	Com. ⊖
Green	Switch 1
White	Switch 2
Shield	Earth

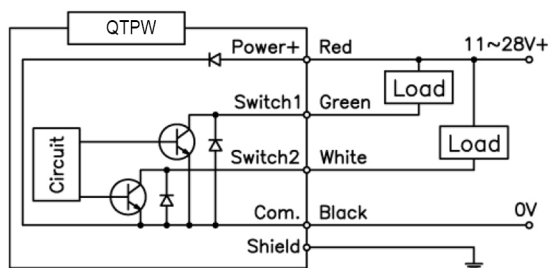
### ► QTPU Type



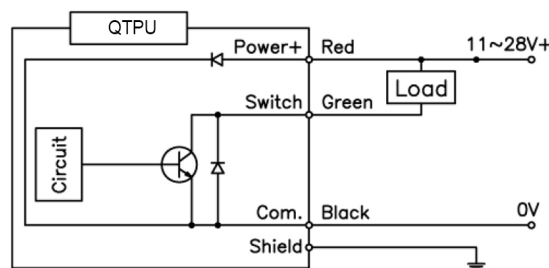
Wire Color	Connections
Red	Power ⊕
White	Com. ⊖
Green	Switch
Shield	Earth

## Circuit Diagram

### ► QTPW



### ► QTPU



## Ordering Information

Model Name	QTP	U	0010	K	A	C	A	Option
Output		U : Switch 1, Hysteresis adjustable W : Switch 1,2						A : Normal
Pressure Range								Connecting Methods C : Cable
								Pressure port A : R(PT)3/8" D : G(PF)1/4" B : G(PF)3/8" G : R(PT)1/8" C : R(PT)1/4" H : G(PF)1/8"
								Pressure Unit M : MPa B : bar K : kgf/cm <sup>2</sup> P : psi