



Series QTM

Electronic Pressure Switches



QTM sensing element has excellent temperature properties by adopting a self temperature compensation Glass on Titanium or Stainless 316L. It can control the system without any controller due to the output of 1 or 2 channel NPN open collector switch.

Feature

- Electronic pressure switch with no mechanical moving part
- Fast response 1ms
- Measuring range 0~150MPa
- One or two pressure setting points
- Piezoresistive silicon cell
- Stainless steel 316L or Titanium Diaphragm

Applications

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

SPECIFICATIONS

	QTMU	QTMW
Range	0 ~ 20, 30, 50, 100, 200, 300, 500, 700kPa / 2, 3.5, 5, 10, 20, 30, 35, 50, 100, 150MPa(Gauge) 0 ~ 100, 200, 300, 500, 700kPa / 2, 3.5MPa (Absolute)	
Performance		
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	
Electrical		
Excitation	11 ~ 28VDC	
Output	1 Channel NPN Open Collector	2 Channel NPN Open Collector
Switch Load Current	28V 80mA Max.	
Electrical Connection	Cable	
Physical		
Proof Pressure	150%FS Max.	
Burst Pressure	200%FS Min.	
Vibration	49.1m/s ² {5G}, 10~500Hz	
Shock	490m/s ² {50G}	
Pressure port	R(PT)1/8", G(PF)1/8", R(PT)1/4", G(PF)1/4", R(PT)3/8", G(PF)3/8"	
Media-Wetted Materials	Stainless Steel 304 / Titanium 87% or Stainless Steel 316L	
Weight	Approx. 150g (include cable 100cm)	

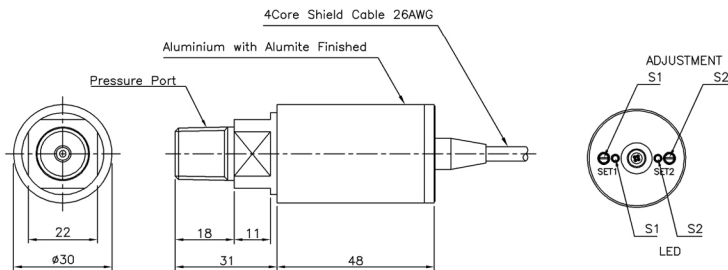
* Specifications are subject to change without notice

WZO CONTROLS LTD



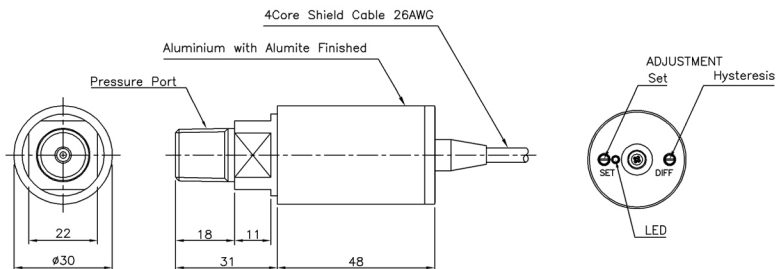
Dimension

► QTMW Type



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

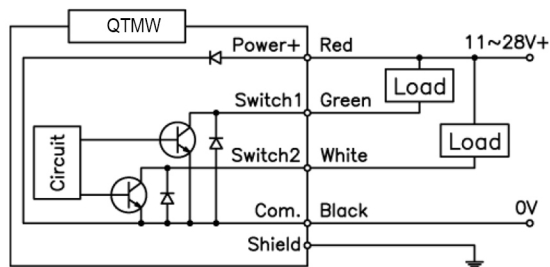
► QTMU Type



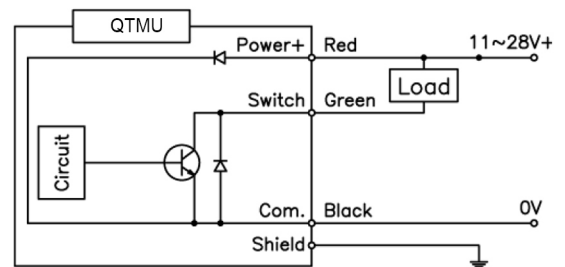
Wire Color	Connections
Red	Power ⊕
Black	Com. ⊖
Green	Switch
Shield	Earth

Internal Circuit Diagram

► QTMW



► QTMU



Ordering Information

Model Name	QTM	U	0100	R	A	C	G	Type of Pressure Measurement
Output								G : Gauge J : Absolute
Pressure Range								Connecting Methods
XXXX : Pressure								C : Cable
Pressure Unit								Pressure port
R : kPa								A : R(PT)3/8"
B : bar								D : G(PF)1/4"
P : psi								B : G(PF)3/8"
C : cmH ₂ O								G : R(PT)1/8"
								C : R(PT)1/4"
								H : G(PF)1/8"

* Specifications are subject to change without notice

WZO CONTROLS LTD