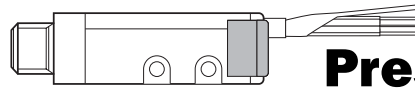




36 Parmenter Road
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Model JTSE Pressure Switch

ELECTRONIC PRESSURE SWITCH JTSE

CE (Compliance with EMC Standards)

Instruction Sheet V1.0

Thank you very much for purchasing our product. For safe and proper use of the product, please thoroughly read this instruction sheet and understand the contents before using. Also, please keep this instruction sheet in a safe place for future reference

WARNING

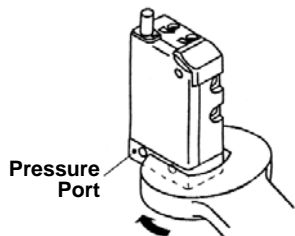


CAUTION The following warnings notify the user that injury or damage may occur if the product is used improperly.

- This product is neither a drip proof nor a dust proof structure. Never use it under conditions where water or oil drips, dust rises, or corrosion occurs.
- Do not use corrosive gases or liquids as pressure media.
- Do not apply pressure in excess of maximum pressure.
- Do not short-circuit the unit by touching one output terminal wire to another. Also, do not cause current over 80mA to flow to/from the switch. This may cause damage to the internal circuitry.
- When handling the product, always pick it up by the body and do not apply excessive force to the cable.
- When performing piping work on the product, always hold the product by the port section, and do not exceed the specified torque when tightening the pipes.
- For stability, use a regulated DC power supply. Surge absorbing circuits (diodes, varistors, etc.) are necessary if inductive loads such as relays and solenoids are connected to the same power line as the JTSE. If a DC power supply unit such as a switching power supply is used, the FG terminal should be grounded (see Figure 1, right).
- Use pH neutral detergents to clean the switch body. Do not use lacquer thinner and other solvents for cleaning.

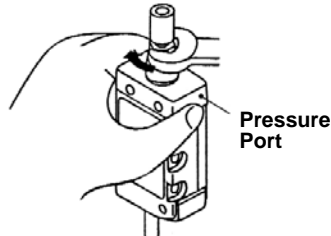
Piping

• When using R1/8 fitting:



Secure pressure port block and attach suitable fitting with torque no greater than 4 lbf•in. (Do not secure the other portion of the body, only the pressure port block. Use sealing tape if necessary.

• Using M5 female screw bore:



Support the pressure port block and attach the suitable fitting with a torque no greater than 4 lbf•in. Make sure that the pressure port block is the only portion held when piping.



Never perform these procedures while holding the PS40 main body. This may break switch or affect performance characteristics.



Major Specifications

You have purchased ANVER Electronic Pressure Switch:

JTSE

Pressure Range:	0~100kPa
Fitting Part Type:	R1/8 with M5 female screw
Switch Output Type:	One-Switch Output (Variable Hysteresis) and Analog Output
Output transistor configuration:	PNP Open Collector

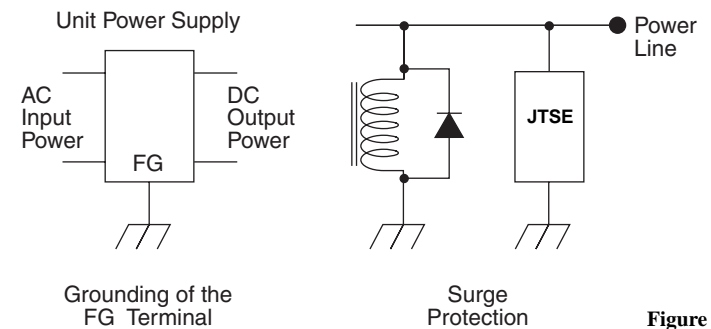
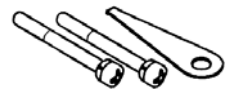


Figure 1

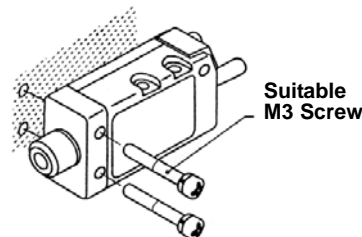
ACCESSORIES:

Pan head small screws and spring lock washers, 2 pcs each.
Screw driver for adjustment; 1 pc.

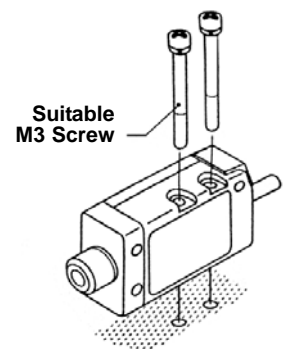


Installation of Main Body

• Side Face Installation

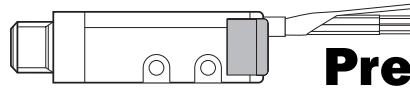


• Bottom Face Installation



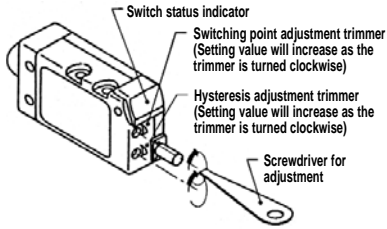


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Model JTSE Pressure Switch

Setting



A. Set the appropriate hysteresis value by adjusting the hysteresis adjustment trimmer. **B.** Set the pressure setting at which you desire the switch to engage, and set the switching point by adjusting the switching point adjustment trimmer. **C.** Repeat the above procedures several times to obtain exact switching point.



Be careful not to apply too much force to the trimmers. Torque applied to the hysteresis adjustment trimmer should be no greater than 4 lbf•in.

Wiring

The wires should be connected as shown in the table below. Be sure to connect the wires properly.

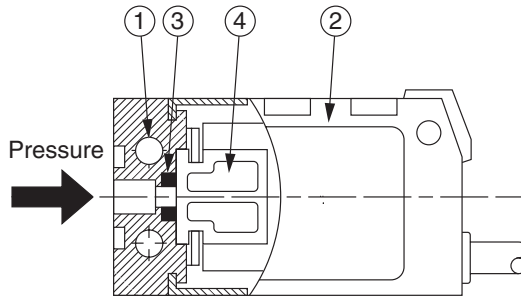
Color	
Brown	Power supply
Blue	Common
Black	Switch output
White	Analog output

NOTE: Ground the shield wire if necessary.

Internal Construction

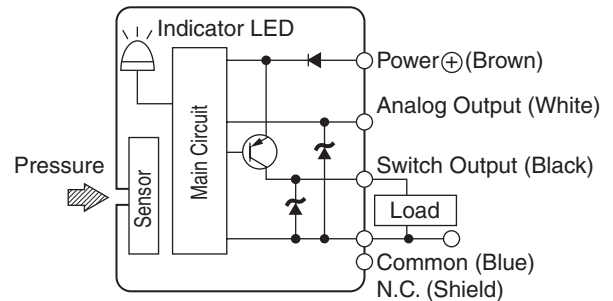
Port Name:

1. Pressure Port
2. Housing
3. "O" Ring
4. Port Block



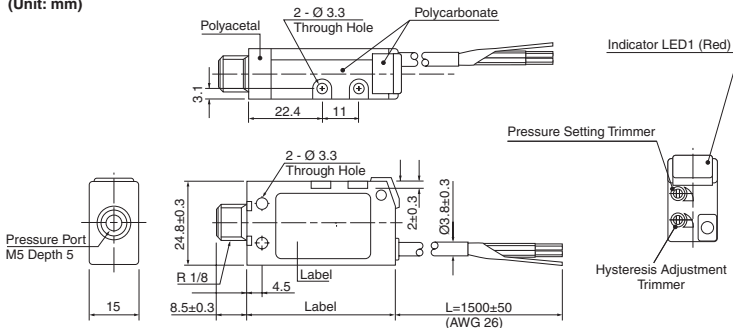
Internal Circuits

One PNP Output



Outline Dimensions

Unless otherwise specified, tolerance: ±0.5 (Unit: mm)



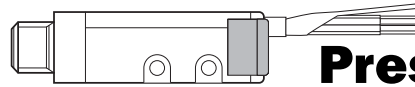
WARRANTY

This Product is covered by a one-year warranty. ANVER warrants that any part of the product which proves to be defective due to design and/or manufacturing within one year of purchase, will be repaired or replaced, free of charge. Note that the warranty will only be applied to the product alone, not to damages induced by any failure of the product. However, the warranty will not be applied in any of the following circumstances.

- Failure and/or damage caused by improper use not conforming to the instruction sheet or negligent handling.
- Failure and/or damage caused by inappropriate modification, adjustment on repair.
- Failure and/or damage caused by natural disaster, fire or any other act of God.



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Model JTSE Pressure Switch

Major Specifications

General Specifications	
Type (indicator)	Gauge pressure
Pressure media	Non-corrosive-gases
Operating temperature	-20 ~ 70°C
Storage temperature	-20 ~ 80°C
Compensated temperature	0 ~ 50°C
Pressure range	0 ~ -100 kPa
Rated pressure	-100 kPa
Maximum pressure	200 kPa
Breakdown pressure	500 kPa
Operating Humidity	35 ~ 85 % RH (No Condensation)
Dielectric Strength	500V AC, 60 s (Leakage current 1mA max.)
Pressure Port	R 1/8 (Female Screw) or "O" ring groove (Female Screw)
Net Weight	Approx. 50g
Power Supply	
Driving Power Voltage	10.8 ~ 30V Ripple Content
Current consumption	17mA maximum
Switch Outputs	
Setting range	0 ~ rated pressure minimum
Setting method	Adjustable by trimmer pot
Number of outputs	1
Hysteresis	0 ~ 15% of the set value
Switching Operation	<p style="text-align: center;">Hysteresis</p> <p>The diagram shows a pressure axis with three key points: Rated Pressure (-100 kPa) on the left, Set Value in the middle, and Barometric pressure (0 kPa) on the right. A vertical line marks the Set Value. A horizontal double-headed arrow above the Set Value line is labeled 'Hysteresis'. The 'ON' state is indicated by a dashed line that is active from the Set Value up to the Rated Pressure. The 'OFF' state is indicated by a solid line that is active from the Set Value down to the Barometric pressure.</p>
Switch rating	30V, 80mA
Residual voltage	1.2V max. (PNP)
Response	Approx. 1 ms
Display	Red LED ON
Accuracy	±3 % FS max. (0 ~ 50°C reference temperature 25°C)
Analog output	
Output Voltage	1 ~ 5
ZERO voltage	1±0.1V
SPAN voltage	4±0.1V
Output current	1mA max. (output load resistance should be 5k Ω minimum)

