

# FineTek SQ 27 Series Pressure Switch Operation Manual



Before installation, please refer to this operation instruction to familiar with all features of pressure switch. Thanks for your patronage in FineTek products

## Features

- Well-operated even under harsh environment
- Options in housing material (all kinds of steel)
- Options in contact material (Silver / Gold)
- Output options in terminals and plug contact
- Cost-effective with high performance
- User-friendly in pressure set-up

## Applications

Machinery, lubricate piping, engine system, ventilation, refrigerate industry, automatic, ship-building industry, petrochemicals, food industry, processes control, water treatment and etc.

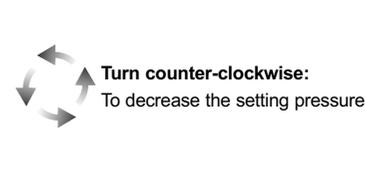
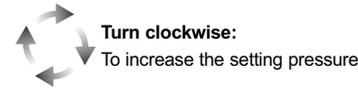
## Installation Guide

- Avoid dropping or hitting during installation.
- Make sure the wires are secured.
- IP65 is proofed only with cover protection.
- Regular inspection on pressure and signal is recommended if used in safety switch function.
- Before usage, please check if power and voltage are normal
- Don't use in air and fluid that tend to clog with viscosity.
- Don't use in ambient temperature over 100°C(212°F). (Please refer to the membrane temperature in product spec)

## Tuning Instruction

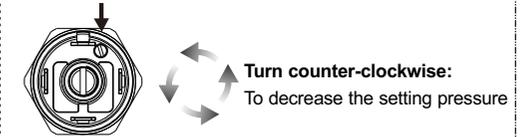
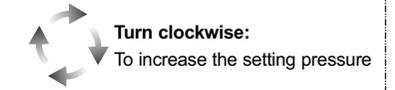
### NO Value Adjustment

Prepare a parallel screwdriver, to tune pressure value to be acted:



### NC Value Adjustment

Prepare a parallel screwdriver, to tune pressure value to be acted:



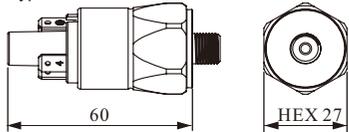
PS :

- Suggested adjustment range of NC is 30~50% of valus.I Please don't go beyond this range to avoid damage on the swith.
- Due to pressure attack or long hours working,the screw inside the pressure switch might become loose,and as a result,the setup pressure value might be changed. To avoid this problem,it is suggested to apply glue on the screw after adjusting the pressure value setting.

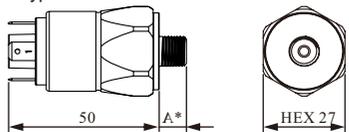
PS : It is suggested to seal the screw with glue to fix the tuning position to avoid changing of pressure value due to long-term operation.

## Dimension

Socket Type



External Type

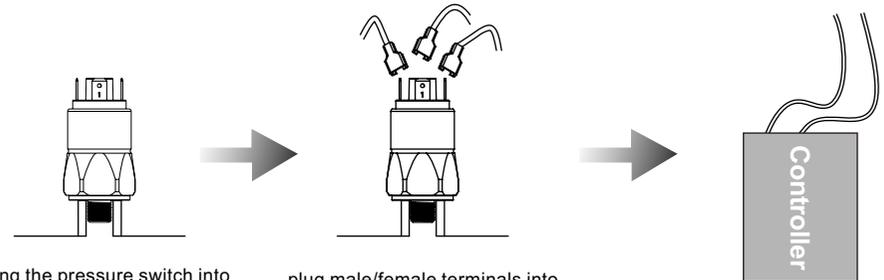


M10*1 taper	9mm	M12*1.5	12mm
M10		G 1/4"	
G 1/8"		PT 1/4"	
PT 1/8"		NPT 1/4"	
NPT 1/8"			

## Specifications

- Material: Iron (Yellow Zinc Plated), SUS316, Brass
- Operating Voltage/Contact (Max.): 2A / 50Vdc, 4A /250Vac (UL508)
- Voltage Isolation: 300Volt
- Response Frequency: 2Hz
- Max. Voltage Peak: 1.5KV
- Electrical Connection: Terminal & Socket type
- Membrane Materials/Operation Temp.:
  - NBR (Standard) -10~100°C
  - VITON -10~100°C
  - EPDM -10~100°C
  - NBR(Low Temp.) -30~100°C
  - VITON(Low Temp.) -30~100°C
  - EPDM(Low Temp.) -30~100°C
- Pressure Range: 0.3~100 Bar
  - ※ ≤20bar with UL certification
- Piping Selection: M10 \* 1 Taper (Standard)
  - M10 \* 1 ,M12 \* 1.5
  - 1/8" NPT, 1/4" NPT
  - 1/8" PT, 1/4" PT
  - 1/8" G, 1/4" G
- Contact Model: SPDT
- Substance Protection: IP00
- Working expectancy: 1.5X10<sup>6</sup> cycles (in 50 bar)
- Frequency: 2Hz

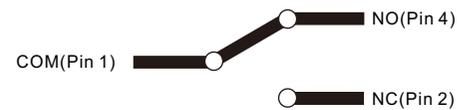
## Installation



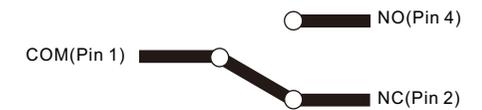
Piping the pressure switch into the connection port of pressure source (liquid or air or oil)

plug male/female terminals into the socket of pressure switch

## Illustration of contact model



Pressure reaches pre-set



Pressure doesn't reaches pre-set

## Terminal Types



(Wire dia 1.25mm)

(Socket Terminal)

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