

A+Fine SQ 24 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.
- IP67 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)

Specifications

- Material: Iron(Yellow Zinc Plated),SUS316 , Brass
- Operating Voltage/Contact (Max.): 4A/ 50Vdc, 4A/ 250Vac (UL508)
- Voltage Isolation: 300Volt
- Response Frequency: 2Hz
- Max. Voltage Peak: 1.5KV
- Electrical Connection: Terminal & Socket type & External 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
 - EPOM(Low Temp.) -30~100°C
- Pressure Range: 0.2~99 Bar 100~300Bar
※ ≤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: NO, NC
- Substance Protection: IP00
- Pressure Switch Protection: IP67(in NBR)
- Working expectancy: 1.5X10⁶ cycles (in 50 bar)
- Frequency: 2Hz
- Tightening Torque of terminal screws: < 0.35Nm
- Weight: Terminal type--65g External type--65g
Socket type--68g

Dimension

Terminal Type: 37, Hex 24

Socket Type: 51, Hex 24

External Type: 46, Hex 24

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

NO

Pressure is over threshold value, contact point acts in circuit close

Pressure is under threshold value, contact point acts in circuit open

NC

Pressure is over threshold value, contact point acts in circuit open

Pressure is under threshold value, contact point acts in circuit close

Installation

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

Wire the Y terminal or R Terminal with the pressure switch, it is suggested that the torque acting on the contact point is less than 0.35Nm.

plug male/female terminals into the socket of pressure switch

Terminal Types

(Wire dia 1.25mm) (Isolation) (Y Terminal)

(Wire dia 1.25mm) (Isolation) (R Terminal)

(Wire dia 1.25mm) (Socket Terminal)

Tuning Instruction

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

Turn clockwise:
To increase the setting pressure

Turn counter-clockwise:
To decrease the setting pressure

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.

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