LCD Readout Digital Pressure Switch

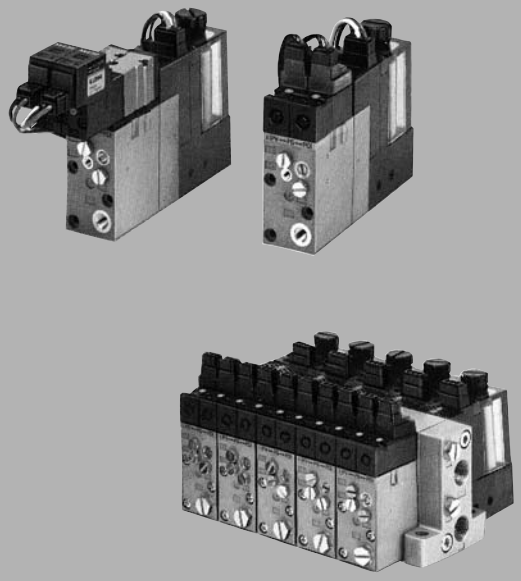
Series ZSE3 (For Vacuum)/ISE3 (For Positive Pressure)

For General Pneumatics



Easy pressure setting with the digital display

Can be integrated with a vacuum unit, Series ZX



Built-in failure prediction output function

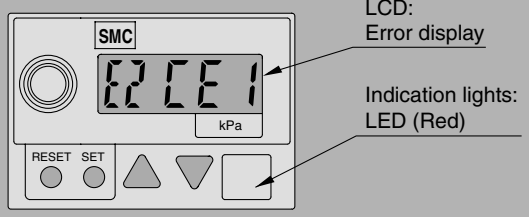
When system performance declines due to filter element clogging, worn vacuum pads, piping leakage, etc., the switch can detect and indicate an oncoming problem before failure occurs.

Two independent outputs

Allows the calibration of two different setpoints e.g. change of vacuum pad size requiring different setpoints, two different supply pressures requiring different pressure confirmation points.

Self-diagnostic function

- **Excessive current**
- **Excessive pressure**
- **Data error**



Calibration data

The calibration data is stored in an EEPROM. The EEPROM is rated to keep its memory for 100,000 hours (approx. 11 years) without having power supplied.

Suction filter comes as standard

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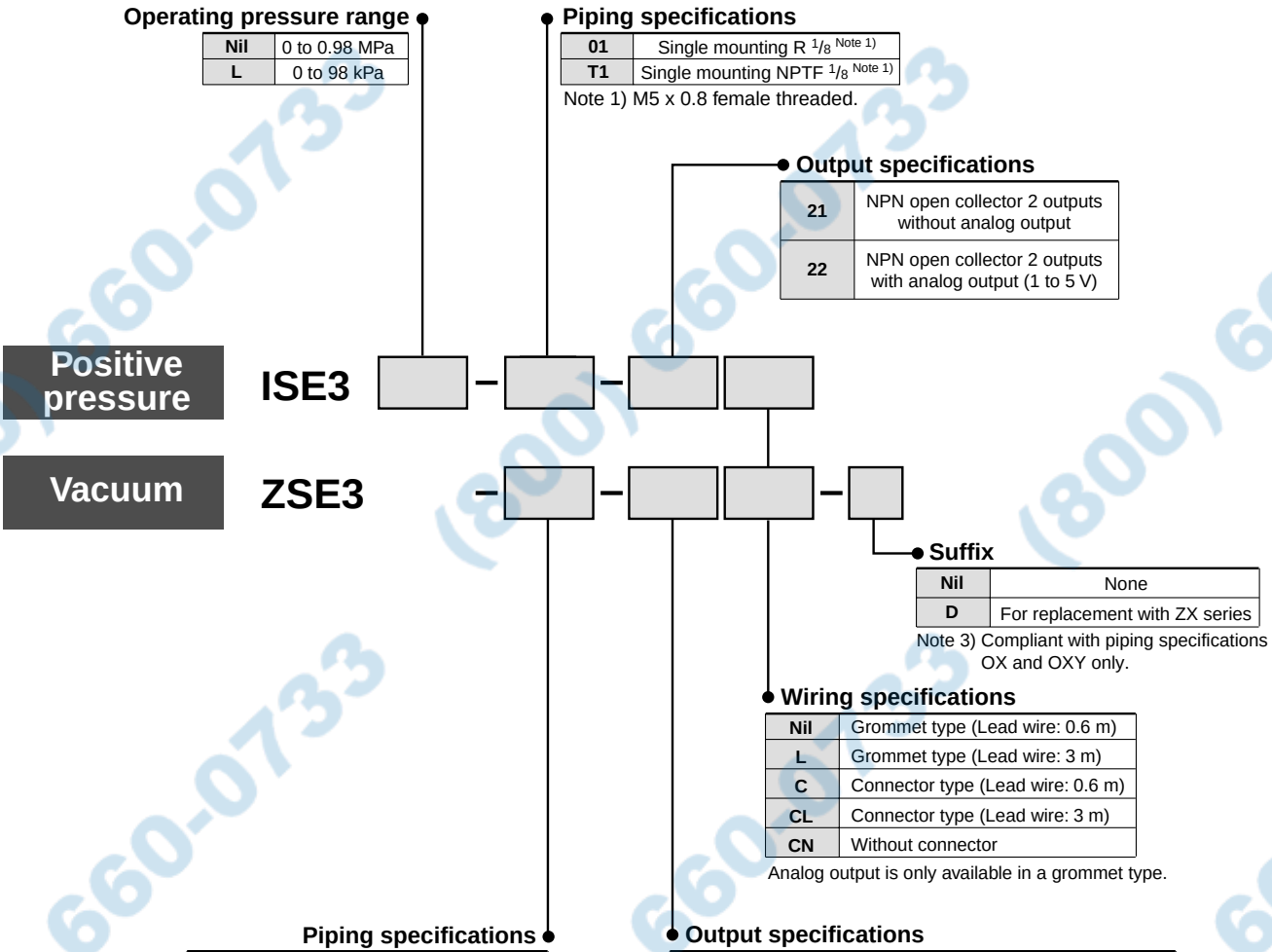
How to Order



Operating pressure range

Nil	0 to 0.98 MPa
L	0 to 98 kPa

Piping specifications

01	Single mounting R 1/8 Note 1)
T1	Single mounting NPTF 1/8 Note 1)

Note 1) M5 x 0.8 female threaded.

Output specifications

21	NPN open collector 2 outputs without analog output
22	NPN open collector 2 outputs with analog output (1 to 5 V)

Suffix

Nil	None
D	For replacement with ZX series

Note 3) Compliant with piping specifications OX and OXY only.

Wiring specifications

Nil	Grommet type (Lead wire: 0.6 m)
L	Grommet type (Lead wire: 3 m)
C	Connector type (Lead wire: 0.6 m)
CL	Connector type (Lead wire: 3 m)
CN	Without connector

Analog output is only available in a grommet type.

Piping specifications

01	Single mounting R 1/8 Note 2)
T1	Single mounting NPTF 1/8 Note 2)
0X	With suction filter M5 x 0.8
0XY	With suction filter M6 x 1 (Option)

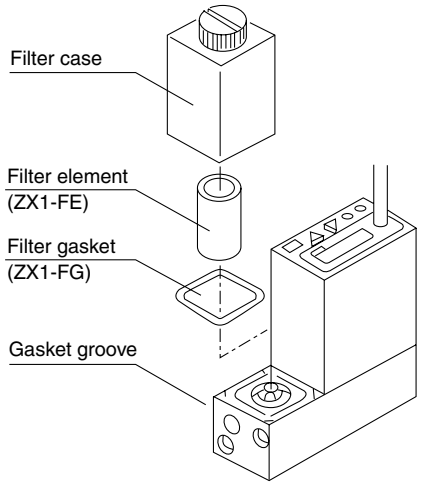
Note 2) Single mounting type: M5 x 0.8 female threaded.

Output specifications

21	NPN open collector 2 outputs without analog output
22	NPN open collector 2 outputs with analog output (1 to 5 V)
23	NPN open collector 1 output Failure predict function without analog output
24	NPN open collector 1 output Failure predict function with analog output (1 to 5 V)

How to Replace Filter Element

Replace the filter element when clogging causes deterioration of the adsorption force or slow response time.
(Element part number: ZX1-FE)
Confirm that the filter gasket is seated in the groove and then reassemble the parts. (Filter gasket part no.: ZX1-FG)



● Regarding the filter case

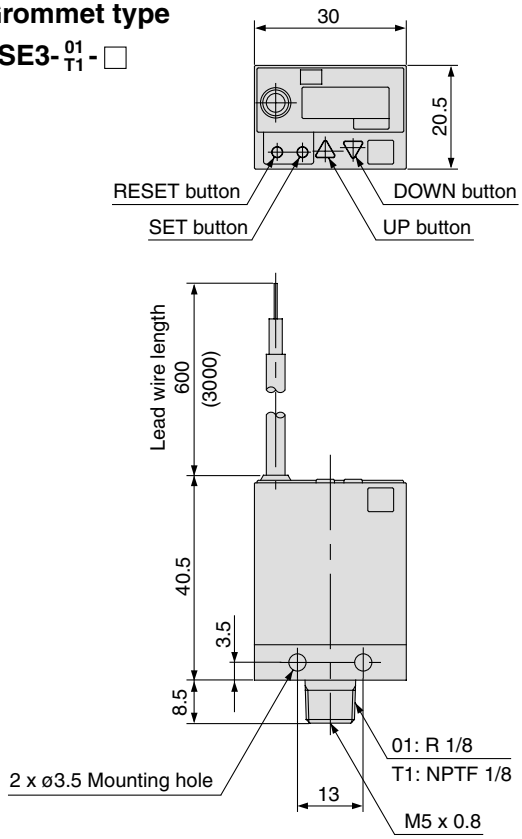
⚠Caution

1. The case is made of polycarbonate. Therefore, do not operate it in an environment that is exposed to chemicals such as thinner, carbon tetrachloride, chloroform, acetic ester, aniline, cyclohexane, trichloroethylene, sulfuric acid, lactic acid, or water-soluble cutting oil (alkalinic).
2. Operate it away from direct sunlight.

Dimensions/Switch Only

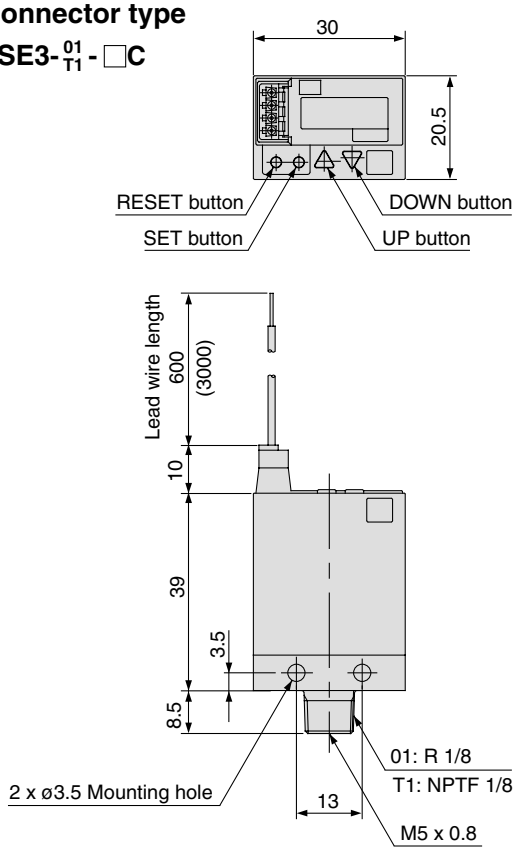
Grommet type

IZSE3-01T1-□



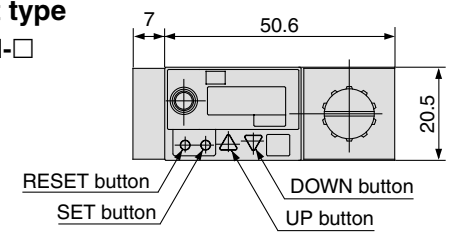
Connector type

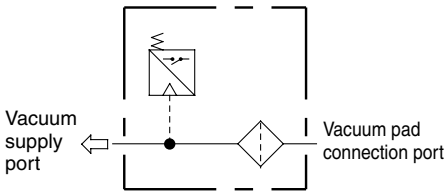
IZSE3-01T1-□C



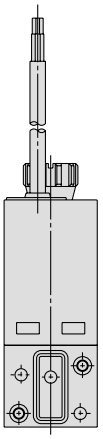
Grommet type

ZSE3-0X□-□

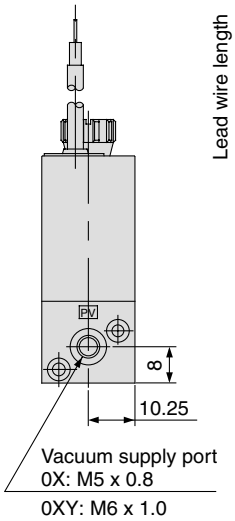


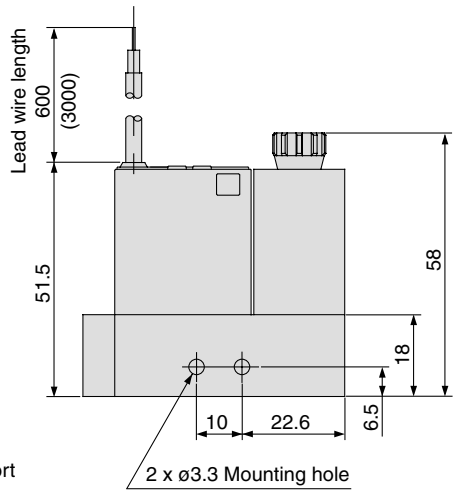


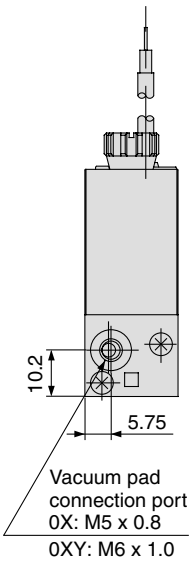
Pneumatic circuit



ZSE3-0X□-□-D

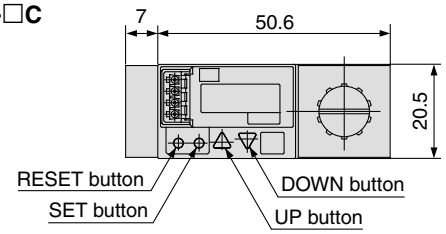


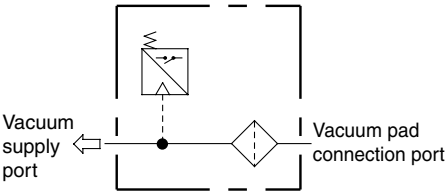




Connector type

ZSE3-0X□-□C





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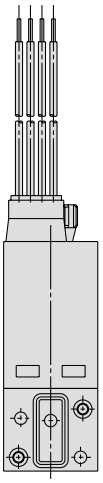

ZSE3-0X□-□C-D

