

Model CE11 Electronic Pressure Switch

OUTLINE

This is a small and high-performance electronic pressure switch in which an evaporation type semiconductor strain gauge and a hybrid electronic circuit are combined. This can be applied to the pressure control of vehicles, construction machines, hydraulic in oil and water machinery

FEATURES

- A stainless steel diaphragm is equipped to the pressure sensing portion and welded to the body, making it an over all construction. So, no oil leakage is worried.
- As no moving part exists in this pressure gauge, excellent anti-impact and durable performance are demonstrated.
- The output is of open collector type and is easily inputted into a computer and a sequencer.
- This pressure switch is small in size and light in weight.

SPECIFICATION

Fluid:

Gas or liquid

Operating condition:

Under the normal condition, where there is no inflammable gas or liquid which cause the ignition or explosion.

Connection:

R1/4 (PT), R3/8 (PT), G3/8 (PF)

* For other connections, please cantact us.

Wetted parts material:

Diaphragm 630st.st. (17-4 PH st.st.)

Socket 304st.st. Throttle S35C (Option)

* When surge pressure to exced the rated pressure is expected. Please use throttle.

Pressure range:

 $0 \sim 1 \rightarrow 0 \sim 50 \text{MPa} \ (0 \sim 10 \rightarrow 0 \sim 500 \text{kgf/cm}^2)$

Max. allowable pressure: 200% of rated pressure

(150% for range 35, 50MPa)

Operating temperature:

-20 ~ 90℃

Storage temperature:

-30 ~ 100℃

Power source:

10 ~ 30V DC (Standard 20V DC)

Output signal:

Open collector output

30V, 150mA DC max.

Operating point error:

Within ± 3 % F.S. (At -10 ~ 70°C)

Dead band:

3% F.S. within fixation

Setting:

1 setting

Vibration resistance:

6.8G According to JIS D1601 (33.3 Hz or 66.6 Hz)Shock

resistance:

20G According to JIS C0912

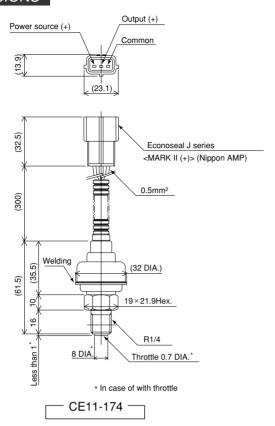
Construction:

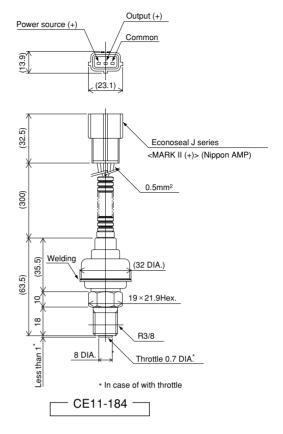
Equivalent to IP54

Weight:

Approx. 100 g

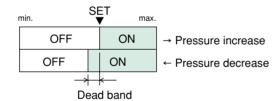
DIMENSIONS



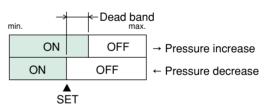


OPERATION SYSTEM

Upper limit ••• Transister will be ON at setting point when pressure increase

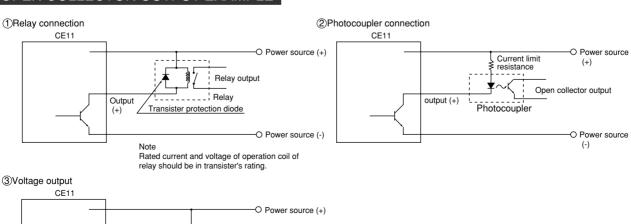


Lower limit ••• Transister will be ON at setting point when pressure decrease



OPEN COLLECTOR OUTPUT EXAMPLE

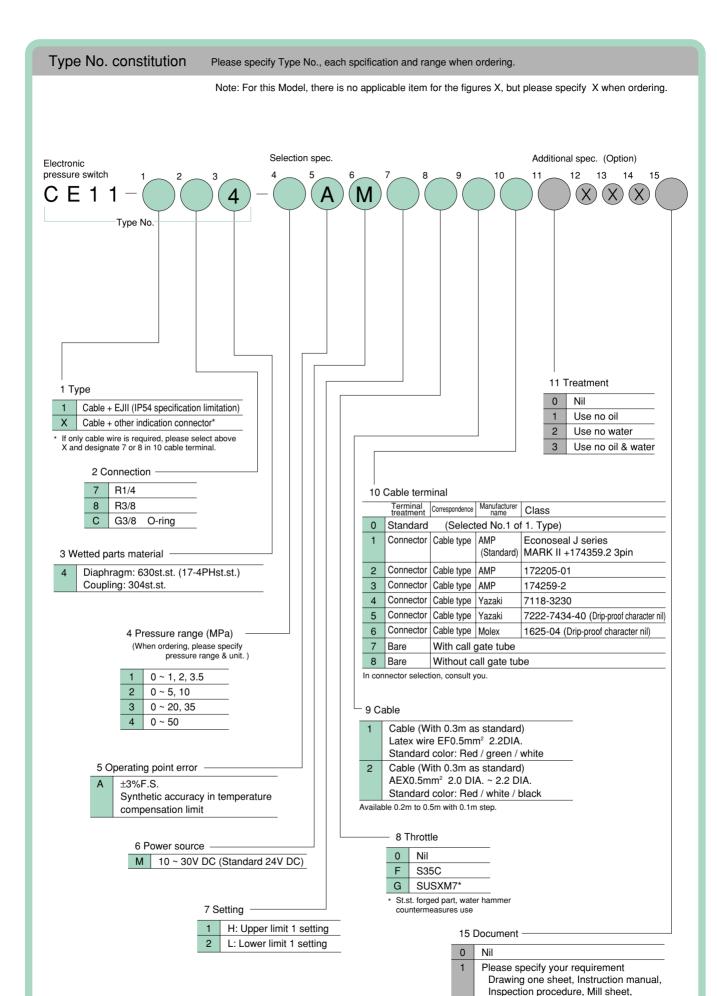
Output (+)



O Power source (-)

Pull-up resistance

HL output of voltage



Test report