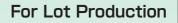
KL15 Differential Pressure Transmitter for Incorporation into Machines and Equipments

For gas measurement (Featuring silicone diaphragm)



Overview

Highly sensitive pressure transmitter detecting small "Pa" pressure featuring small SC [Silicon Capacitive] sensor can be installed into a variety of machines and equipments. The manufacturing is done by lot production.



Features

- •Newly developed small sensor chip is built in. Cost reduction is achieved for the incorporation into machines
- •Achieved high proof pressure up to 1000 times Allowable maximum pressure 50kPa (±50kPa against single port, double ports)
- •Highly sensitive pressure sensor is built in

Specifications

Media:

Gas (Dry air and nitrogen gas) No water or dusts should be contained.

Installation Environment*1:

Install in location where no gases or liquids may exist that have the potential to become flammable or ignitable under normal operating condition

Pressure connection: Outer dia ϕ 3 straight port (H, L)

Wetted parts: Silicon, Glass, Au, Ti, Ceramic, Silicone rubber, PBT

Differential pressure range: 0 to 50, 100, 200, 300Pa

Allowable maximum pressure:

Proof pressure for single port ± 50 kPa

Proof pressure for double ports ±50kPa *Proof pressure against surge negative pressure caused by open/close solenoid valve is not specified.

Operating temperature:

-10 to 60°C (Non-freezing or condensing)

Operating humidity range: 95%RH and below (Non-condensing, at -10 to 60°C) Storage temperature and humidity ranges: -20 to 70°C, 85%RH and under (Non-freezing or condensing)

Power source (Vcc): 5V DC±0.25V DC

Output:

Ratio metric 1/10 Vcc to 9/10 Vcc (0.5 to 4.5V DC when Vcc=5V DC)

Current consumption: 2mA and under

Load resistance: $10 \text{ k}\Omega$ and over

Accuracy: ±2%F.S. (23±2°C)

Position effects: 1Pa/45° and below

Temperature coefficient:

±0.1%F.S./℃ (Zero) ±0.3%F.S./℃ (Span)

Construction: Indoor use (IP20)

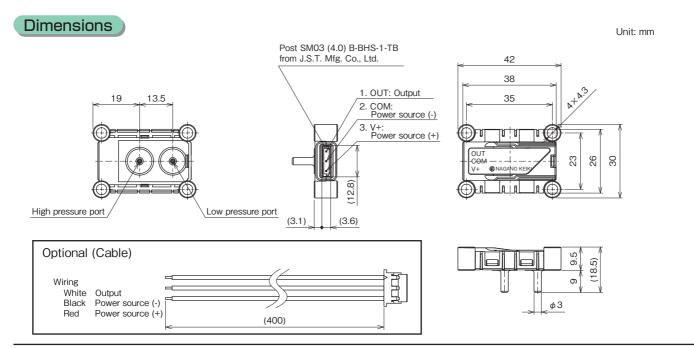
Weight: Approx. 10 g (Not including cable)

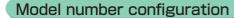
*1 Noise prevention against circuit should be prepared where noise is present at installed area.



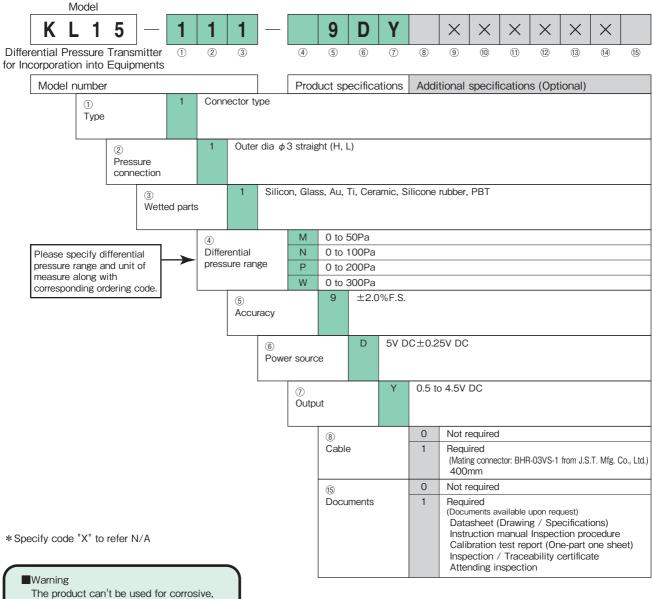
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Please specify the model, each requiring specification and differential pressure range to order.



flammable gas and fluids measurements.