

## GE-325-Ex ATEX Thermal Flow Switches

GE-325-Ex Thermal Flow switch could be used to measure and monitor the Gas Flow and Liquid Flow, as a stability and sensitive flow switch, widely used in Petroleum Chemical Industry. It adopts a stabilized Ex-proof shell to isolate the flammable point from external gas and dust, achieve the Ex grade to Ex db IIC T6 Gb ( $-20^{\circ}\text{C} \leq T_a + 80^{\circ}\text{C}$ ), Ex tb IIIC T85 $^{\circ}\text{C}$  Db ( $-20^{\circ}\text{C} \leq T_a + 80^{\circ}\text{C}$ ). It has domestic and international ATEX explosion-proof certificates. There are a variety of range options, and the signal output can be SPDT PNP or NPN.

The objection of the declaration is in conformity with the relevant EU harmonization legislation: ATEX directive 2014/34/EU, Machinery directive 2006/42/EC. The ATEX grade is Ex db IIC T6 Gb ( $-20^{\circ}\text{C} \leq T_a + 80^{\circ}\text{C}$ ), Ex tb IIIC T85 $^{\circ}\text{C}$  Db ( $-20^{\circ}\text{C} \leq T_a + 80^{\circ}\text{C}$ ) IP65; or **Ex II 3GD Ex dc IIC T6 Gc** ( $-20^{\circ}\text{C} \leq T_a + 80^{\circ}\text{C}$ ) and **Ex tc IIIC T85 $^{\circ}\text{C}$  Dc** ( $-20^{\circ}\text{C} \leq T_a + 80^{\circ}\text{C}$ ) IP65 for **gas** and **dust** explosion prevention.

### Specification:

Connection size: G1/2" or 3/4" 1" Male Thread or Flange

Probe Material: SUS304 or SUS316L

Probe Length: 15mm to 150mm or more

Output: relay SPDT NO or NC, NPN, PNP

Power Supply: DC 24V as standard

Protect Grade: IP66

Electronic Connection: M20x1.5

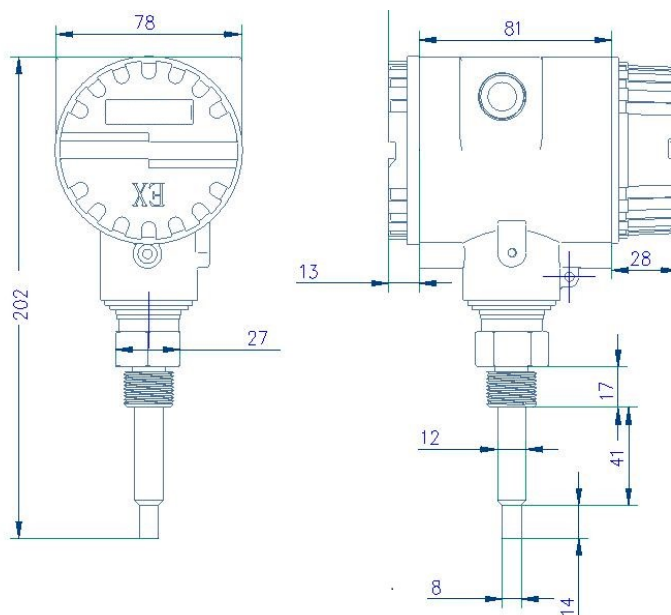
Max Pressure: 100bar

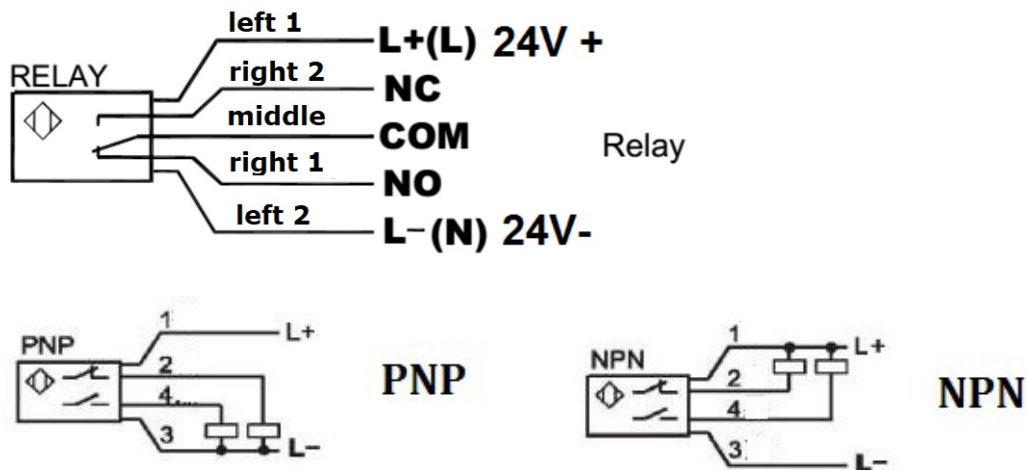
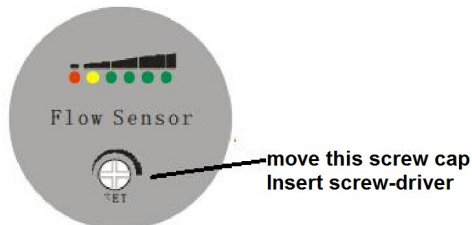
Medium Temperature:  $-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$

Flow Speed: 0.1m/s  $\sim$  30m/s (Gas, Air); 0.01m/s  $\sim$  10m/s or more (Liquid)

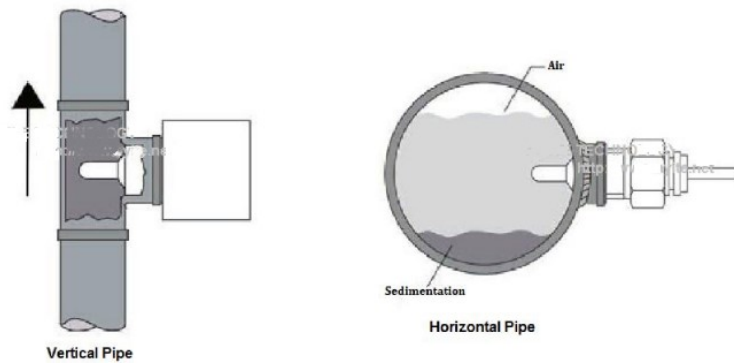


### Dimension:



**Wire Connection:****Adjust setpoint:**

- **Red LED:** lower than the set point
- **Yellow LED:** equal or higher than the set point
- **Green LED:** beyond the set point (1, 2, 3 or 4)

**Installation:****How to order:****1. Connection:**

G1/2" Male Thread is standard, G3/4" G1" Flange or other need declaration

**2. Output signal:** Relay SPDT is standard, PNP or NPN need declaration

**3. Probe Length:** need declaration for detail

**4. Ex-grade:** standard is Ex db IIC T6 Gb Ex tb IIIC T85°C Db; if need SIL3 products, please declare it when quote or order.