



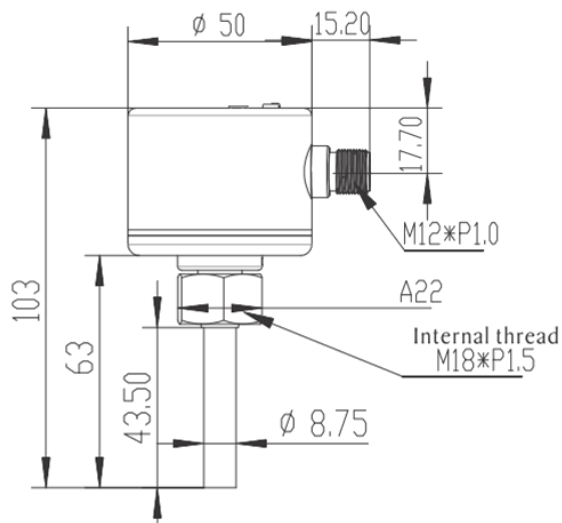
## FEATURES

- 2-in-1 functions for flow and temperature monitoring
- All stainless steel structure
- Seal Plus + technology for IP68 / IP69K
- Advanced intelligent system, user-programmable
- 7-segment LEDs for flow rate and 3-digits temperature rate
- Enhanced immunity to interference and EMC ratings
- Small size, light weight, wear resistance and corrosion resistance

## TECHNICAL PARAMETERS

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Operating Voltage (V)         | 20-36DC                                              |
| Max. current loading (mA)     | 400                                                  |
| Short-circuit protection      | YES                                                  |
| Reverse polarity protection   | YES                                                  |
| Overload protection           | YES                                                  |
| The indication of no flow     | YES                                                  |
| Voltage drop (V)              | < 2.5                                                |
| Current consumption (mA)      | < 80                                                 |
| Temperature gradient (K/min)  | 300                                                  |
| Pressure rating (bar)         | 300                                                  |
| Accuracy (%)                  | +/-2.. +/-10 CM/S (Factory setting as 25°C water)    |
| Housing material              | Stainless steel 316L                                 |
| Probe material                | Stainless steel 316L (Also titanium for your choice) |
| Connection                    | M12 socket                                           |
| (Liquid) Temperature (C°/F)   | -25...+80/-13...+176                                 |
| Setting range (cm/s)          | 3...300                                              |
| Max. sensing range (cm/s)     | 3...100                                              |
| (Gas) Temperature (C°/F)      | -25...+80/-13...+176                                 |
| Setting range (cm/s)          | 200...3000                                           |
| Max. sensing range (cm/s)     | 200...800                                            |
| Switching point adjustment    | Button                                               |
| Power-on delay times (s)      | < 8                                                  |
| Output response time (s)      | > 2                                                  |
| Protection classification     | IP68                                                 |
| (Ambient) Temperature (°C/°F) | -25...+80/-13...+176                                 |
| Humidity (%)                  | 15...85                                              |
| Shock Resistance (g)          | 50                                                   |
| Vibration Resistance (g)      | 20                                                   |
| (Storage) Temperature (°C/F)  | -25...+80/-13...+176                                 |
| Display LED                   | 3 colors LED X 10                                    |
| Certification                 | CE; RoHS                                             |

## DIMENSIONS



\*Standard length for immersion  
45mm, also available 100

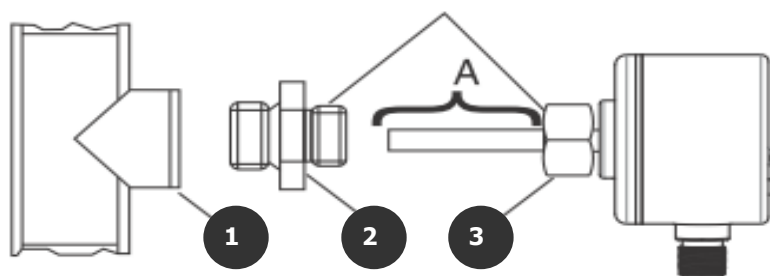
## OVERALL DIMENSIONS

| Mounting size<br>M12 connector | Mounting size<br>G1/4"connector | Mounting size<br>G1/2 "connector |
|--------------------------------|---------------------------------|----------------------------------|
|                                |                                 |                                  |

Version L: 45mm

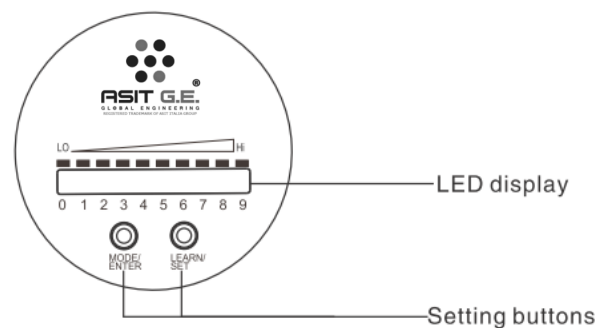
## OUTLINE CONNECTION

Outline Construction and Installation are shown below:



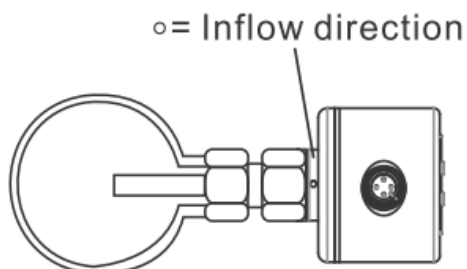
1: Pipe      2: Adapter      3: Internal Thread M18 x 1.5  
(Adapter: 1/2"GAS-M, 1/2"NPT-M, M20X1.5, Other)

Display:

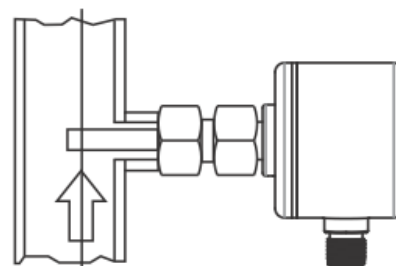


Suggested installation method:

Horizontal Pipe:

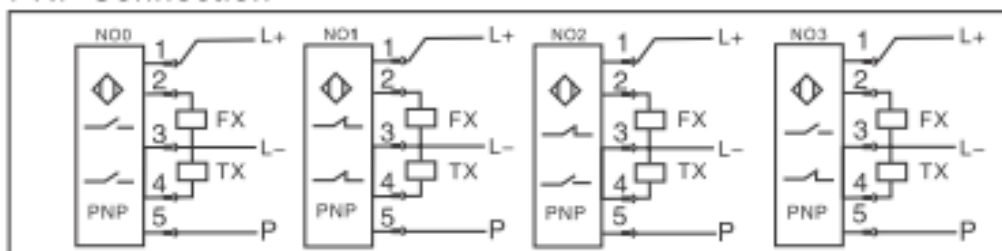


Vertical Pipe:

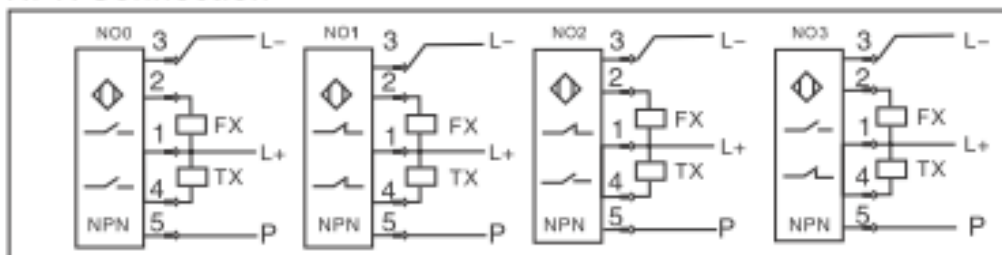


# PINOUT AND ELECTRICAL CONNECTION

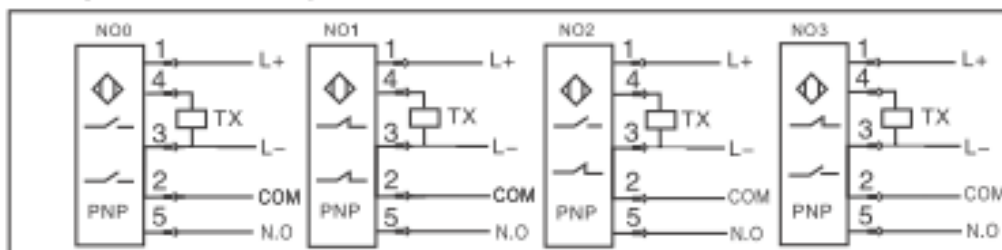
## 01: PNP Connection



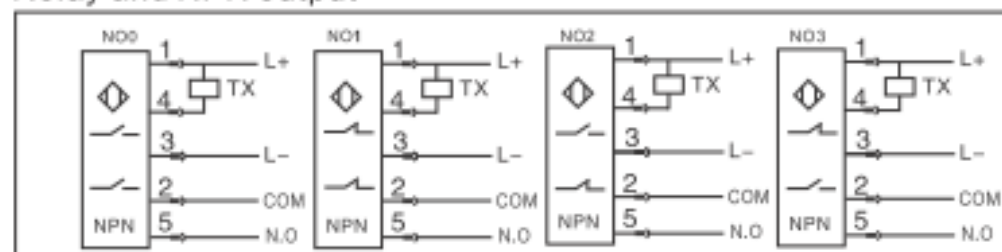
## 02: NPN Connection



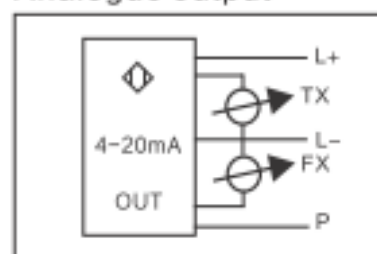
## 03: Relay and PNP output



## 04: Relay and NPN output



## 05: Analogue output



### Pinout



| PNP/NPN output                 | RELAY / PNP output          | Analogue output                |
|--------------------------------|-----------------------------|--------------------------------|
| PIN1: L+ Positive pole (BN)    | PIN1: L+ Positive pole (BN) | PIN1: L+ Positive pole (BN)    |
| PIN2: Flow, PNP/NPN (WH)       | PIN2: Flow, Relay COM (WH)  | PIN2: Flow, 4...20 mA (WH)     |
| PIN3: L- Negative pole (BU)    | PIN3: L- Negative pole (BU) | PIN3: L- Negative pole (BU)    |
| PIN4: Temp., PNP/NPN (BK)      | PIN4: Temp., PNP/NPN (BK)   | PIN4: Temp., 4...20 mA (BK)    |
| PIN5: P, Programming wire (RD) | PIN5: Flow, Relay NO (RD)   | PIN5: P, Programming wire (RD) |

# ORDER CODE

| AI.GLFT-ECooling             | GAS and LIQUID FLOW SWITCH          |  |  |  |  |  |  |  |  |  |
|------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|
|                              | VERSION SELECTION                   |  |  |  |  |  |  |  |  |  |
|                              | F+T: measure flow and temperature   |  |  |  |  |  |  |  |  |  |
|                              | SUPPLY                              |  |  |  |  |  |  |  |  |  |
|                              | 1: 20...36 Vdc                      |  |  |  |  |  |  |  |  |  |
|                              | PROCESS CONNECTION                  |  |  |  |  |  |  |  |  |  |
|                              | 0: STD (M18X1.5F)                   |  |  |  |  |  |  |  |  |  |
|                              | 1: 1/2”GAS-M (with fitting)         |  |  |  |  |  |  |  |  |  |
|                              | 2: 1/2”NPT-M (with fitting)         |  |  |  |  |  |  |  |  |  |
|                              | 3: M20X1.5 (with fitting)           |  |  |  |  |  |  |  |  |  |
|                              | 4: Personalized                     |  |  |  |  |  |  |  |  |  |
|                              | OUTPUT                              |  |  |  |  |  |  |  |  |  |
|                              | 01: F:PNP T:PNP                     |  |  |  |  |  |  |  |  |  |
|                              | 02: F:NPN T:NPN                     |  |  |  |  |  |  |  |  |  |
|                              | 03: F:RELAY PNP T:PNP               |  |  |  |  |  |  |  |  |  |
|                              | 04: F:RELAY NPN T:NPN               |  |  |  |  |  |  |  |  |  |
|                              | 05: F:4-20mA T:4-20mA               |  |  |  |  |  |  |  |  |  |
|                              | ROD PLUNGE LENGTH (UNDER THREAD)    |  |  |  |  |  |  |  |  |  |
|                              | L1: 45mm                            |  |  |  |  |  |  |  |  |  |
|                              | L2: 100mm                           |  |  |  |  |  |  |  |  |  |
|                              | L3: 200mm                           |  |  |  |  |  |  |  |  |  |
|                              | L*: Personalized                    |  |  |  |  |  |  |  |  |  |
|                              | DIRECT CABLE OUTPUT (M12 CONNECTOR) |  |  |  |  |  |  |  |  |  |
|                              | D: straight exit                    |  |  |  |  |  |  |  |  |  |
|                              | A: angular exit                     |  |  |  |  |  |  |  |  |  |
|                              | CABLE LENGTH                        |  |  |  |  |  |  |  |  |  |
|                              | 02: 2 m                             |  |  |  |  |  |  |  |  |  |
|                              | 05: 5 m                             |  |  |  |  |  |  |  |  |  |
|                              | 10: 10 m                            |  |  |  |  |  |  |  |  |  |
|                              | CABLE MATERIAL                      |  |  |  |  |  |  |  |  |  |
| R: PUR                       |                                     |  |  |  |  |  |  |  |  |  |
| C: PVC                       |                                     |  |  |  |  |  |  |  |  |  |
| S: PVC (with shielded cable) |                                     |  |  |  |  |  |  |  |  |  |

Power supply      Process connection      Outputs      Length      MV cable      Length      Cable material

|                  |          |          |           |           |          |           |          |
|------------------|----------|----------|-----------|-----------|----------|-----------|----------|
| AI.GLFT-ECooling | <b>1</b> | <b>1</b> | <b>05</b> | <b>L1</b> | <b>A</b> | <b>05</b> | <b>C</b> |
|------------------|----------|----------|-----------|-----------|----------|-----------|----------|

N.B.: when choosing the bar immersion length, consider 12mm thread height to be added to the chosen length

## ORDER CODE EXAMPLE:

Code description:

AI.GLFT-ECooling Flow switch for gases and liquids

F+T: flow and temperature measurement version

1: power supply 20..36VDC

1: process connection 1/2"GAS-M

05: F:4-20mA T:4-20mA

L1: bar immersion length 45mm

A: angled cable outlet

05: cable length 5 meters

C: PVC cable material

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Le caratteristiche dichiarate possono cambiare senza alcun preavviso



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