

HANIC HN-L Flow Switch incorporates thermal technology that operates on the law that fluids absorb heat. A reference RTD measures the fluid temperature. The active element is heated above the fluid temperature and the electronics measures the differential temperature. As flow increases, the molecules of the fluid cool the heated element resulting in a reduction of the temperature differential. An RTD contained in the active element measures this differential temperature reduction and the electronics translates this into a flow signal. A potentiometer is used to set the set-point.

Areas of Application :

Filters, dosing units, pump flow control, cooling water flow control, on flow control, air flow control,



HN-L THERMAL FLOW SWITCH

HN-L1 Display with 6 LED

HN-L2 Display with Dijital

HN-L3 Display with 2 LED

Advantages:

- * LED indication
- * Stainless steel
- * No moving parts, easy to maintain
- * Various length of sensors can be chose
- * Easy to install
- * The set-point can be adjust continuous
- * No pressure loss

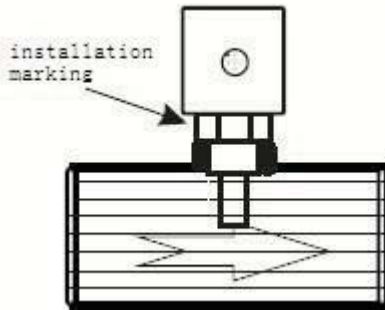


Technical Specification :

Measure range	Water:3--300cm/s; Air:200--3000cm/s; Oil:3--300cm/s
Accuracy	±1~±10cm/s
Settling time	3 minutes
Pressure	100 Bar
Media temperature	-20 to 80°C
Connection	G1/2, G1/4 Male thread / M18 Female thread
Output signal	PNP NPN Relay 4-20mA
Power	24VDC, 110VAC, 220VAC
Sensor length	15mm, 20mm, 30mm, 40mm, 60mm
Consumption current	<60mA
Setting	Potentiometer, 2 Keys
Response time	2(2~10)s
Load	Current:250mA Relay:30VDC/5A,220VAC/5A
Max. temperature gradient of medium	300K/min
Output protect	Reverse/Short/Overload
Protection	IP67
Electrical Connection	M12 Connector, 5 pins or 8 pins
Material	Sensor:AISI316L Body:AISI316L

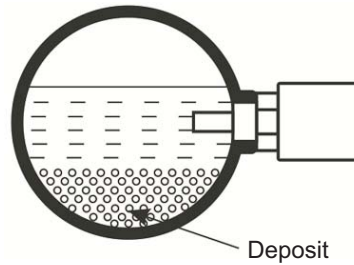
Flow Switch Installation Diagram :

Horizontal installation



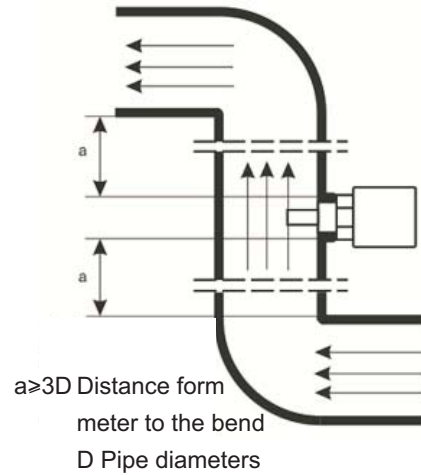
Attention: installation marking of flow switch is opposite to running water

Side installation



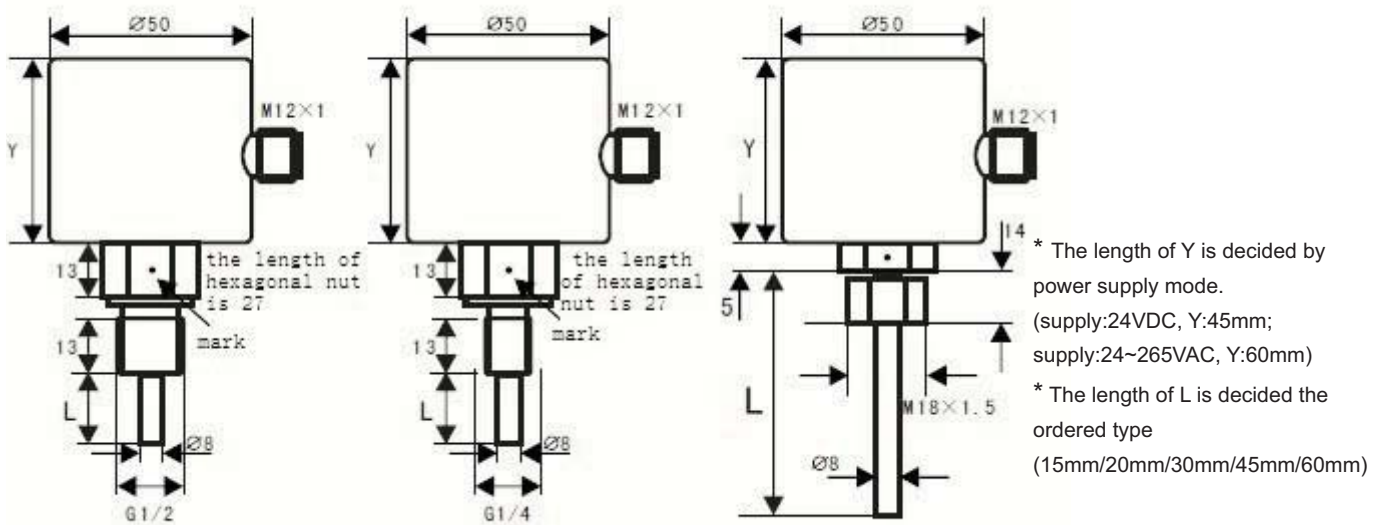
If there is deposit in the pipe, please use side mount

Installation with bend pipe

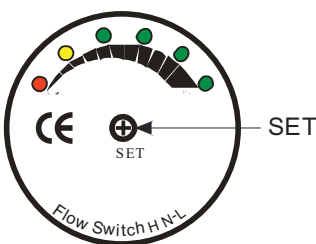


$a \geq 3D$ Distance from meter to the bend
D Pipe diameters

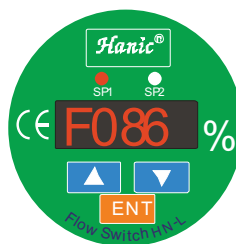
Measurements:



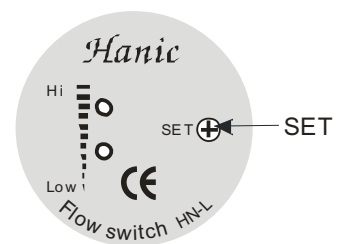
Front Panel:



HN-L1



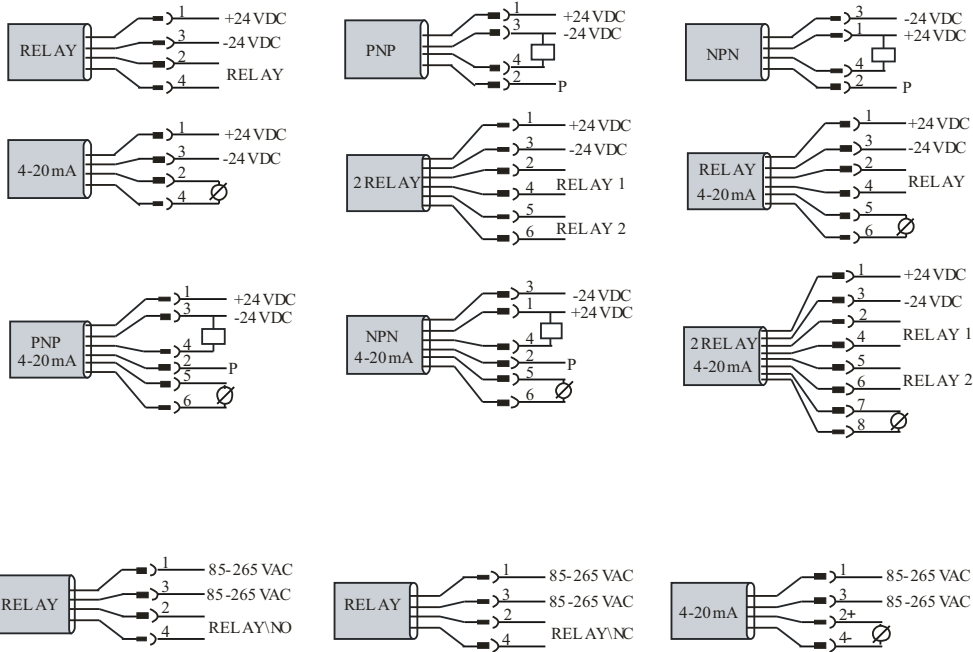
HN-L2



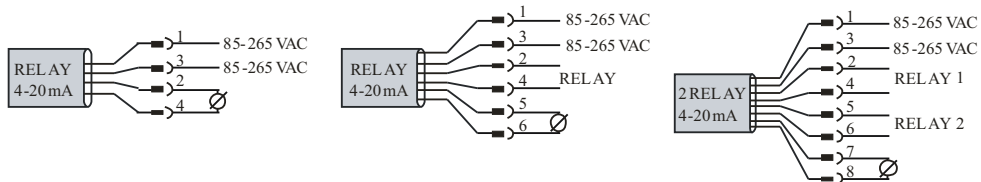
HN-L3

Electrical Connection :

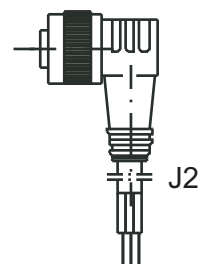
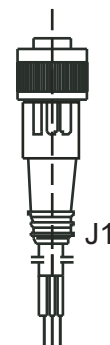
24VDC



85-265 VAC



M12 CONNECTOR		Pin	1	2	3	4	5	6	7	8
		Color	Brown	White	Blue	Black Gray	Red	Yellow	Green	Pink



Order Form:

1 MODEL

HN-L1 Display with 6 LED

HN-L2 Display with Digital

HN-L3 Display with 2 LED

2 CONNECTION

G 1/2" Male Thread ————— G1

G 1/4" Male Thread ————— G2

M18x1,5 Female Thread ————— G3

————— NA

3 STEM LENGHT

15mm ——— 15

40mm ——— 40

20mm ——— 20

60mm ——— 60

30mm ——— 30

Özel Boy ——— NA

4 POWER SUPPLY

24 VDC ...F

110 VAC - Y

85 - 265 VAC - High Active - H

220 VAC - T

85 - 265 VAC - Low Active - L

5 OUTPUT

PNP...P Relay ——— D

NPN...N 4-2mA ——— A

6 ELECTRICAL CONNECTOR

M12x5 Pin STRAIGHT TYPE ——— J1

M12x5 Pin VERTICAL TYPE ——— J2

Std. Model: HN-L1 - G3 - 30 - F - P - J2

HN-L2 - G3 - 30 - F - A - J2

HN-L3 - G2 - 20 - F - P - J2