



- + Suitable for complex location with easy installation
- + Higher sensitivity
- + High accuracy
- + Wide range of application



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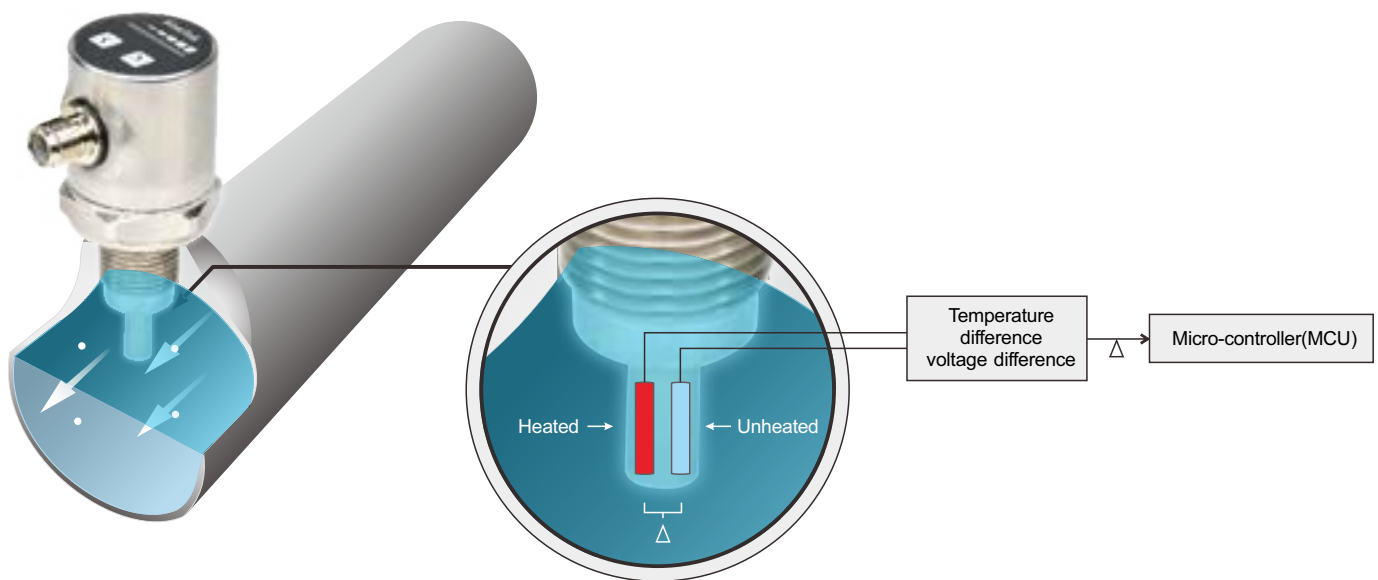
SPX Thermal Dispersion flow switch(Digital type)

INTRODUCTION

Digital Thermal Dispersion Flow Switch detection feature is mainly used where the medium is liquid. Due to different application requirements in the working environment, various models are used, for example, standard type, extended type etc. Two temperature sensing elements are placed in the pipeline. One is heated and the other is not, resulting in a difference in temperature. When the liquid medium flows past the two elements, heat energy is taken away and the temperature of the heated element will fall. The flow rate of the liquid medium is thus calculated according to the difference in temperature of the two elements.

APPLICATION IN ENVIRONMENT

Used to detect and control the flow of liquids in various conveyance or cooling pipelines in industries such as hydroelectric power, machines, refrigerating and air-conditioning, electronics, iron and steel, chemical, shipbuilding, food, pharmaceutical, optics, semiconductors, etc.

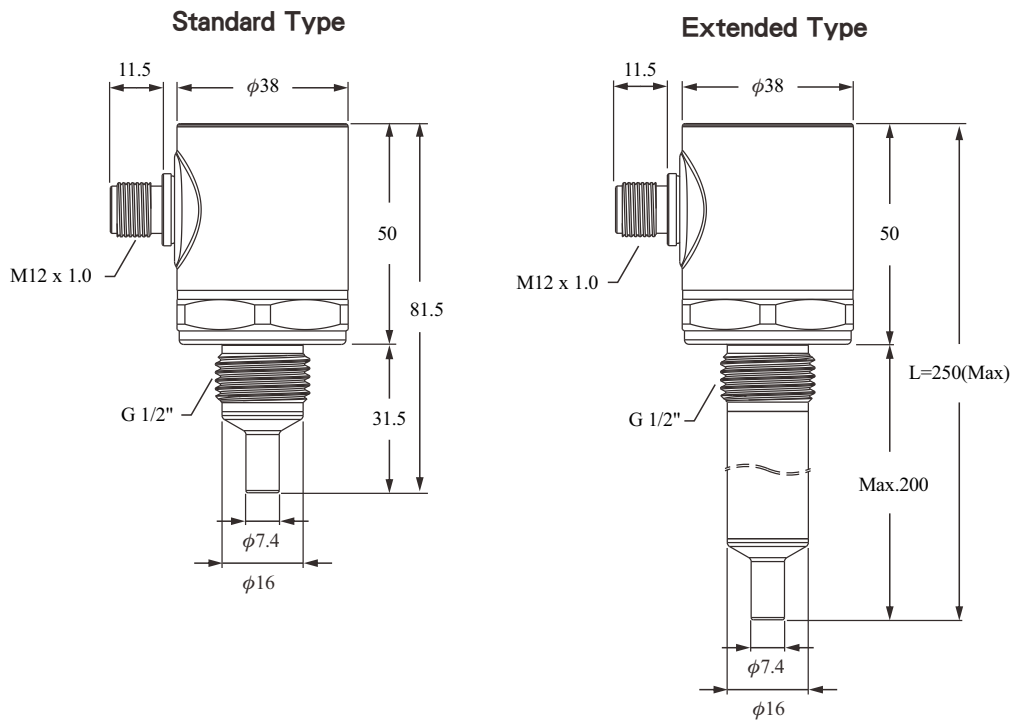


FEATURES

- Thermal dispersion flow switches have higher sensitivity when compared with traditional mechanical switches.
- Three signal output methods for customers to choose from.
- Unlimited installation locations.
- Will not wear off the structure; liquids containing impurities can still be measured.
- The length of the flow sensor rod can be adjusted according to the environment. The pipe diameter can also be adjusted and used in a wide range of applications.
- Replaced the knob with buttons for easier adjustment.
- Digital interface which can be quickly set by using the buttons.
- Multi-segment display with 10 LEDs to sense the liquid flow rate more accurately.

DIMENSIONS DRAWING

(Unit:mm)



SPECIFICATIONS

Model number	SPX Standard Type	SPX Extended Type
Measuring range (Flow rate)	1~150 cm/s (water)	
Ambient temp.	20~80 °C	
Medium temp.	20~85 °C	
Alarm output	Open: NPN/PNP (250mA) Relay:0.3A@125VAC,1A@30 VDC (NO or NC)	
Operating pressure	100 bar (max.)	
LED indicator	Red LED: flow rate is below the set point. Orange LED: flow rate is at the set point. Green LED: shows flow speed.	
Housing	SUS304	
Wetted material	SUS304	
Protection level	IP67	
Time to warm-up	G1/2	
Connection thread	19~36VDC	
Power consumption	15 seconds	
Wiring	150mA(Max.at 24VDC)	
Power consumption	M12 4PIN Cable: 3 wires (NPN/PNP)/4 wires Relay (NO or NC) Power supply – brown, Grounding – blue, Output – black, Output – white (for relay) Green LED: shows flow speed.	

ORDERING INSTRUCTIONS

SPX 2

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05 06

Model number

00: Standard type

07 08

Certification

00: None

09

Probe type

E: Diameter ϕ 38mm, cylindrical (Standard Type)

F: Diameter ϕ 38mm, cylindrical (Extended Type)

Certification

10 11

Thread item

AA: JIS

AB: ISO

12 13

A5: 1/2"

14 15

03: PF male

16 17

Wetted material

MA: SUS304

18

Output

A: NPN

B: PNP

C: Relay (NO)

D: Relay (NC)

19 20 21 22

Length(unit:mm)

Code range	Length range
0031	31.5mm (Standard type)
0050~0200	50~200mm(Extended type)

Accessories-electrical cable connector (optional)



Order: PCL10100-67AA232204C5000



Order: PCL10000-67AA232204C5000