



SPX Thermal Dispersion flow switch (Digital type)

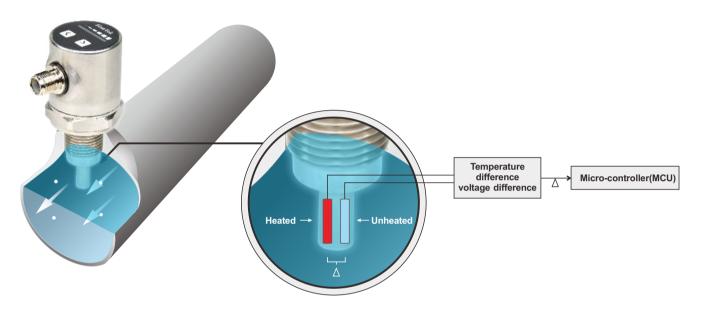
INTRODUCTION _

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 -

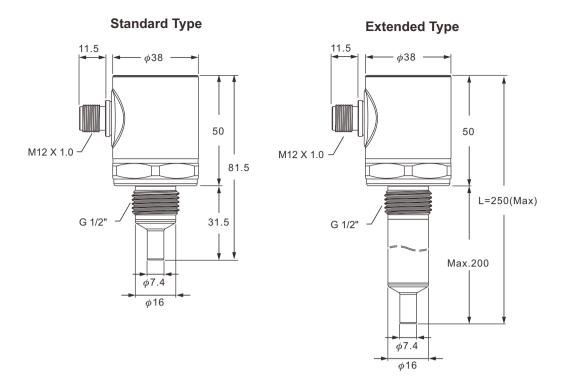
Used to detect and control the flow of liquids in various conveyance or cooling pipelines in industries such as hydroelectric power, machines, refrigerating and airconditioning, electronics, iron and steel, chemical, shipbuilding, food, pharmaceutical, optics, semiconductors, etc.



FEATURES

- Thermal dispersion flow switches have higher sensitivity when compared with traditional mechanical switches.
- 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.
- Three signal output methods for customers to choose from.
- 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.

(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~	−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	on level IP67						
Time to warm-up	me to warm-up 15 seconds						
Connection thread	nnection thread G1/2						
Power consumption	19~36VDC						
Power consumption	150mA(Max.at 24VDC)						
Wiring	M12 4PIN Cable: 3 wires (NPN/PNP)/4 wires Relay (NO or NC) Power supply – brown, Grounding – blue, Output – black, Output – green/white (for relay)						

ORDERING INSTRUCTIONS

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			SPX2			- [
⊕ Model Num	iber ———												
00: Standard type													
⊕ ® Certificatio	n												
00: None													
Probe Type -													
	nm, cylindrical (Stand nm, cylindrical (Exten												
Certification —													
(10) (11)	12 13	14 (15)											
Thread item AA: JIS AB: ISO	A5: 1/2"	03: PF male											
ஞர் Wetted Mat MA: SUS304	terial ————												
A: NPN B: PNP C: Relay (NO) D: Relay (NC)													
(1920)21)22 Length	(unit:mm) ———												

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

Accessories-electrical cable connector (optional)



Order: PC312-1231415M01



Order: PC312-1232410501



Order: PC312-2221410501



Order: PC312-1221415M01