

Thermo-Flo™ Thermal Dispersion Flow Switch

Thermo-Flo Thermal Dispersion Liquid FT10 0412 DS3_0

Features

- ✓ Adjustable set point from .04-3 fps with LED for flow or no-flow status
- ✓ Solid state sensor is not damaged by over-ranging flow velocities
- ✓ 1A relay selectable NO or NC via power supply wiring polarity

Specifications

Set point range:	.04 to 3 fps (.012 to .91 mps)
Factory set point:	.2 fps (.06 mps)
Repeatability:	±.5% of set point @ fixed temp.
Response time:	1-10 seconds
Set point adjust.:	Potentiometer
Viscosity range:	1-200 centipoise
Supply voltage:	12-36 VDC
Consumption:	70 mA maximum
Contact type:	(1) SPST relay
Contact rating:	60 VA
Contact output:	Selectable NO/NC
Process temp.:	F: 32° to 140° C: 0° to 60°
Electronics temp.:	F: -40° to 140° C: -40° to 60°
Pressure:	150 psi (10 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C.
Sensor rating:	NEMA 4X (IP65)
Sensor material:	1__5: PP-Ryton® 5__5: PVDF Kynar®
Cable jacket mat.:	1__5: PP 5__5: PFA Teflon®
Cable type:	4-conductor, #22 AWG (shielded)
Cable length:	Standard: 10' (3m) Special order: 25' (7.6m) or 50' (15.2m)
Process mount:	3/4" NPT (3/4" G / Rp)
Mount. gasket:	Viton® (G version only)
Classification:	General purpose
CE compliance:	EN 50082-2 immunity EN 55011 emission EN 61010-1 safety



Description

The general purpose liquid flow switch is an ideal choice for a wide range of relatively clean water and chemical solutions with non-coating and/or crystallizing characteristics. Media examples include deionized water and sulfuric acid. The 1A relay provides a reliable switch interface with remote devices such as a PLC, SCADA or alarm. The short sensor is intended for use in pipe from 1/2" to 1-1/2"; the long sensor is applied in 2" and up. The switch set point may be adjusted from .04 to 3 fps. The product is broadly selected for low or no-flow applications.

Thermo-Flo Ordering

FT10-□□□5

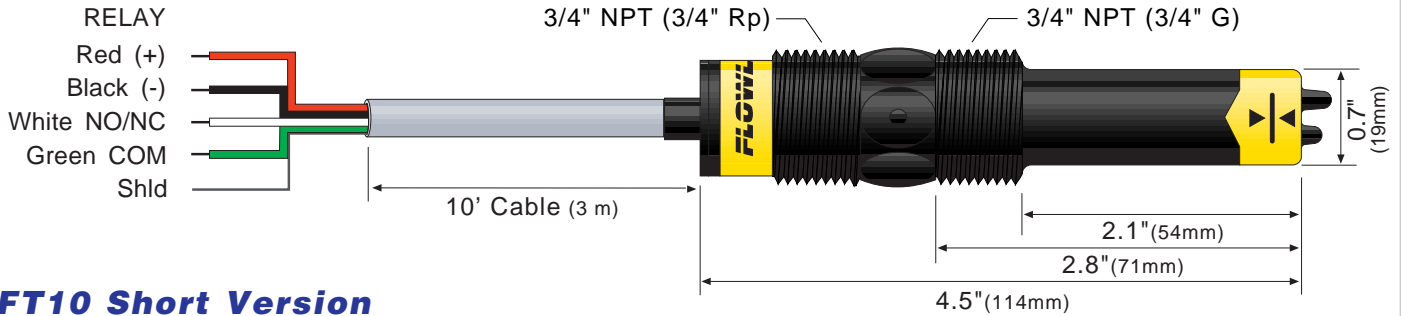
- Sensor material (1)**
- 1 PP
 - 5 PVDF
- Sensor length (2) (3)**
- 3 Short
 - 4 Long
- Process mount (4) (5)**
- 0 3/4" NPT (US)
 - 2 3/4" G / Rp (Metric)

Ordering Notes

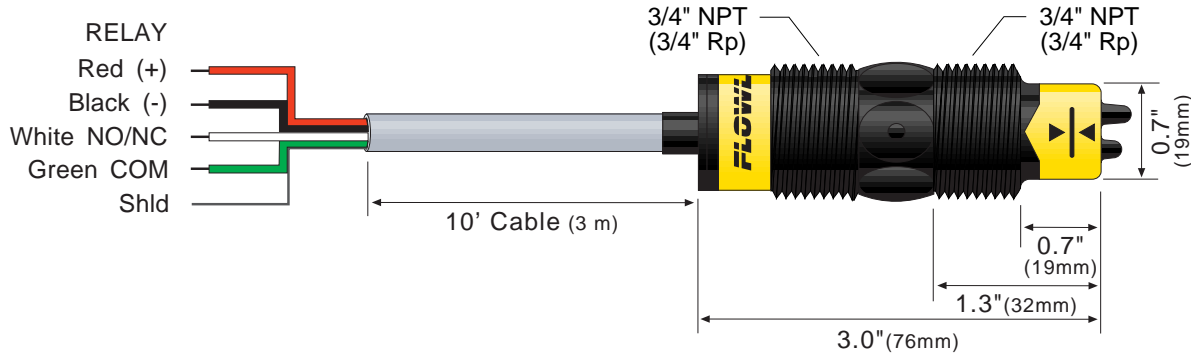
- 1) To special order a 25' (7.6m) or 50' (15.2 m) sensor cable, place the cable length at the end of the part number (ie: FT10-1305-25').
- 2) Select the short sensor for use with pipe sizes from 3/4"-1 1/2" (D25-D50) and the long sensor for 2" and higher (D63 up).
- 3) Select the Pulse-Point fitting to dampen the pulsating flow of liquid metering pumps. Order the FT50-1000 (PP) fitting or the FT50-5000 (PVDF) fitting. The FT50 is compatible with the short NPT flow switch.
- 4) The Metric sensor is offered with straight G threads on the sensing side and conical Rp threads on the cable side of the wrench flat.
- 5) The straight G thread version seals with an included Viton® mounting gasket.

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FT10 Long Version

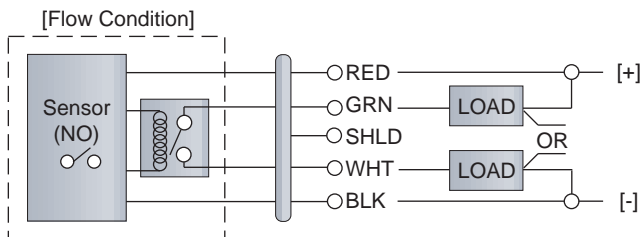


FT10 Short Version



Specifications are subject to change without notice.

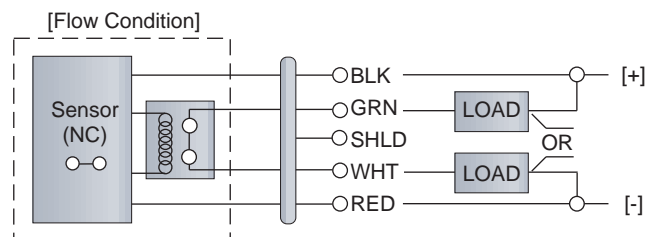
NO Output - DC Powered Load



SENSOR POWER
[RED & BLK Wires]
36 VDC Max.
5 -1 mA Dry
19 -1 mA Wet

RELAY RATING
[GRN & WHT Wires]
120 VAC/120 VDC Max.
1A Max.

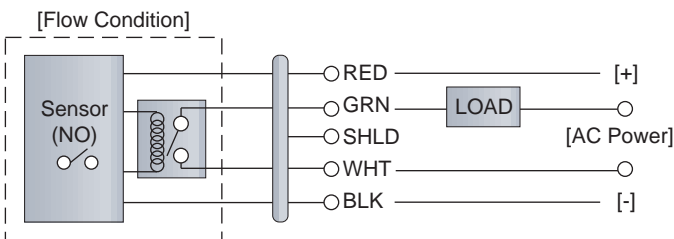
NC Output - DC Powered Load



SENSOR POWER
[RED & BLK Wires]
36 VDC Max.
5 -1 mA Dry
19 -1 mA Wet

RELAY RATING
[GRN & WHT Wires]
120 VAC/120 VDC Max.
1A Max.

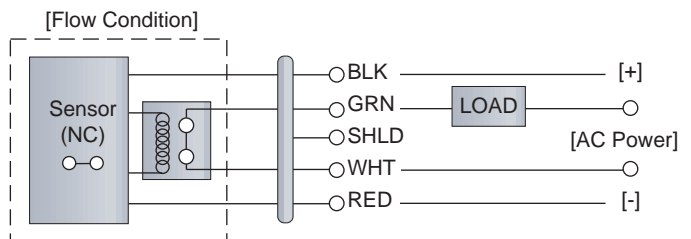
NO Output - AC Powered Load



SENSOR POWER
[RED & BLK Wires]
36 VDC Max.
5 -1 mA Dry
19 -1 mA Wet

RELAY RATING
[GRN & WHT Wires]
120 VAC/120 VDC Max.
1A Max.

NC Output - AC Powered Load



SENSOR POWER
[RED & BLK Wires]
36 VDC Max.
5 -1 mA Dry
19 -1 mA Wet

RELAY RATING
[GRN & WHT Wires]
120 VAC/120 VDC Max.
1A Max.