Thermo-Flo ™

Thermal Dispersion Flow Switch

Features

☑ Adjustable set point from 1-90 fps with LED for flow or no-flow status

☑ Available in short and long sensor lengths for flexible installation

☑ 1A relay selectable NO or NC via power supply wiring polarity

Specifications

Set point range:	1 to 90 fps (.3 to 27 mps)
Factory set point:	10 fps (3 mps)
Repeatability:	±.5% of set point @ fixed temp.
Response time:	1-10 seconds
Set point adjust.:	Potentiometer
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

IP65   CE

Description

The general purpose gas flow switch is a great choice for a broad range of relatively clean gases with non-coating characteristics. Media examples include nitrogen and scrubber exhaust fumes. 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 or ducting from 1/2" to 1-1/2"; the long sensor is applied in 2" and up. The switch set point may be adjusted from 1 to 90 fps. The product is broadly selected for low or no-flow applications.
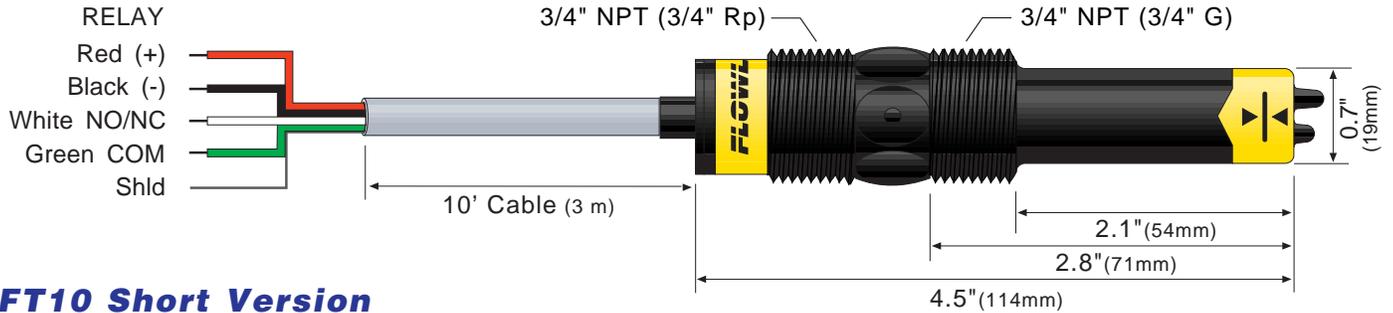
Thermo-Flo Ordering

GT10- ▯ ▯ 5

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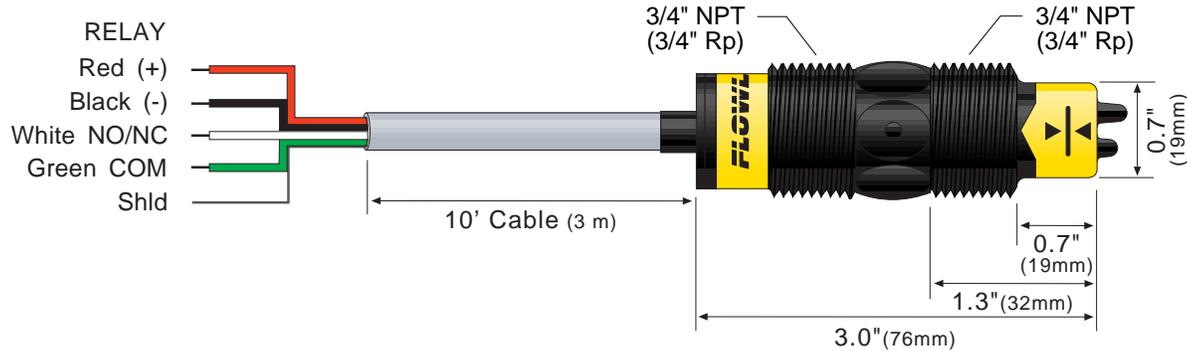 0   3/4" NPT (US)
  2   3/4" G / Rp (Metric)

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: GT10-1305-25').
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) 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.
4) The straight G thread version seals with an included Viton® mounting gasket.

FLOWLINE

Spec Tech Industrial 203 Vest Ave. Valley Park, MO 63088   Phone: 888 SPECTECH
E-mail: sales@spectechind.com   www.spectechind.com

Thermo-Flo™ Thermal Dispersion Flow Switch

FT10 Long Version

RELAY
Red (+)
Black (-)
White NO/NC
Green COM
Shld

3/4" NPT (3/4" Rp)
3/4" NPT (3/4" G)

10' Cable (3 m)

0.7" (19mm)
2.1" (54mm)
2.8" (71mm)
4.5" (114mm)

FT10 Short Version

RELAY
Red (+)
Black (-)
White NO/NC
Green COM
Shld

3/4" NPT (3/4" Rp)
3/4" NPT (3/4" Rp)

10' Cable (3 m)

0.7" (19mm)
0.7" (19mm)
1.3" (32mm)
3.0" (76mm)

Specifications are subject to change without notice.

NO Output - DC Powered Load
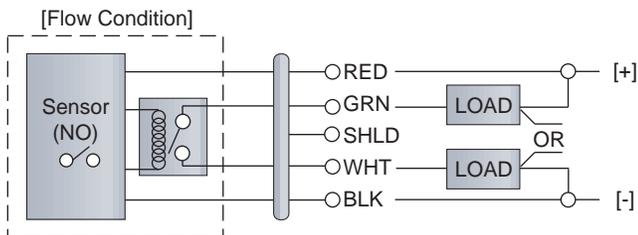
[Flow Condition]

Sensor (NO)

RED — [+]
GRN — LOAD
SHLD — OR
WHT — LOAD
BLK — [-]

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
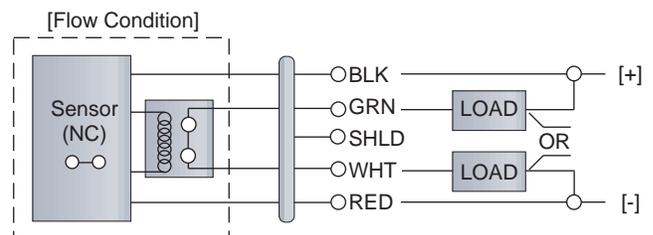
[Flow Condition]

Sensor (NC)

BLK — [+]
GRN — LOAD
SHLD — OR
WHT — LOAD
RED — [-]

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

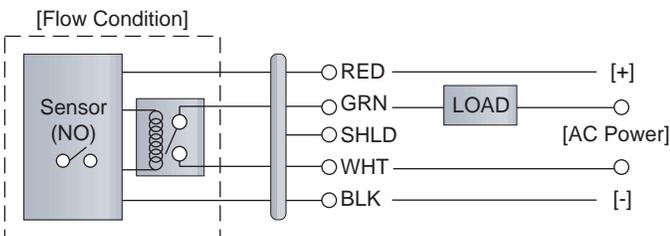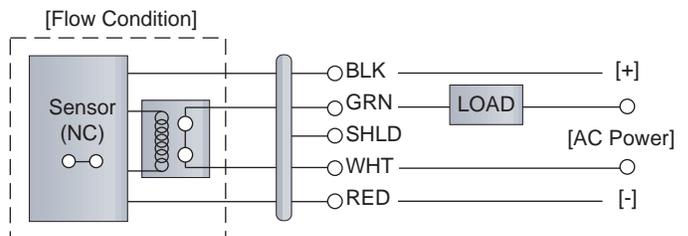RELAY RATING
[GRN & WHT Wires]
120 VAC/120 VDC Max.
1A Max.

NO Output - AC Powered Load

[Flow Condition]

Sensor (NO)

RED — [+]
GRN — LOAD
SHLD — [AC Power]
WHT —
BLK — [-]

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

[Flow Condition]

Sensor (NC)

BLK — [+]
GRN — LOAD
SHLD — [AC Power]
WHT —
RED — [-]

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.