

Smart-Trak™ with Compact Junction Box

Smart-Trak A___ 0412 DS0_1

Features

- ✓ Offered in 3 sensing technologies for broad application coverage
- ✓ Rugged PP construction for use in challenging corrosive environments
- ✓ Adjustable level switches make process changes fast and simple

Description

Offered in CSA and Cenelec approved intrinsically safe or general purpose configurations, this switch package provides up to four adjustable level switch points with a 1A relay or dry contact closure interface for remote devices such as a PLC, SCADA or alarm. The product is typically selected for atmospheric day tank, process vessel and waste sump applications. Specify the appropriate sensor technology and assembly dimensions.



Specifications

Length:	8" to 10' (20 cm to 3m)
Switch points:	1 to 4 (field adjustable)
Orientation:	± 30° vertical
Process temp.:	F: -40° to 194° C: -40° to 90°
Pressure:	Atmospheric
Wetted material:	PP (20% glass fill)
Process mount:	2" NPT (2" G)
Enclosure rating:	NEMA 4X (IP65)
Installed height:	5.7" (14.4 cm) above tank process mount
Encl. material:	PP, UL94VO
Conduit entrance:	Single, 1/2" NPT
Termination:	12 poles
CE compliance:	EN 50082-2 immunity EN 55011 emission EN 61010-1 safety

Ultrasonic sensor

Supply voltage:	12-36 VDC
Consumption:	25 mA maximum
Contact type:	(1) SPST relay
Contact rating:	GP: 120 VAC/VDC @ 1A IS: 32 VDC @ 0.5A
Contact output:	Selectable NO/NC
Classification:	Intrinsically safe

Vibration sensor

Supply voltage:	12-36 VDC
Consumption:	25 mA maximum
Contact type:	(1) SPST relay
Contact rating:	120 VAC/VDC @ 1A
Contact output:	Selectable NO/NC
Classification:	General purpose

Buoyancy sensor

Contact type:	(1) SPDT reed
Contact rating:	120 VAC/VDC @ 15 VA
Contact output:	Selectable NO/NC
Classification:	General purpose

Smart-Trak Ordering

A -434 - - - - -

Sensor technology (1)

- Z Vibration
- U Ultrasonic
- V Buoyancy

Number of sensors (2)

- 1 One sensor - add 1 x ST
- 2 Two sensors - add 2 x ST
- 3 Three sensors - add 3 x ST
- 4 Four sensors - add 4 x ST

Contacts / classification (3)

- 5 SPST relay / IS
- 6 SPDT reed / GP
- 8 SPST relay / GP

Process mount

- 3 2" NPT (US)
- 7 2" G (Metric)

Dimensions (4) (5) (6) (7) (8)

- A Specify
- B Specify
- C Specify (if applicable)
- D Specify (if applicable)
- E Specify (if applicable)

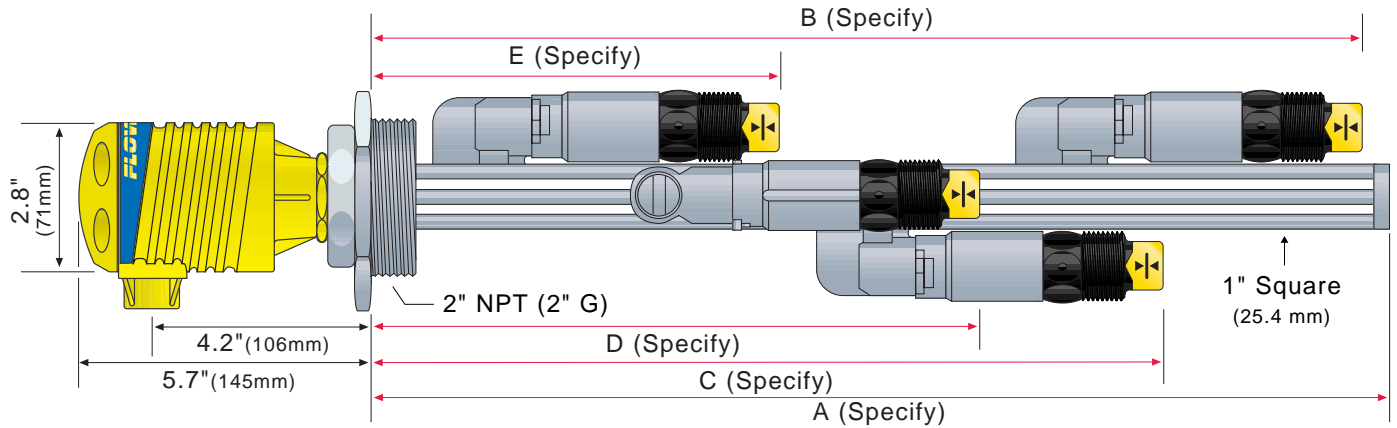


Ordering Notes

- 1) Select the best sensor technology based upon your application.
- 2) Multiply the number of sensors by the selected sensor technology adder and add.
- 3) The following are the available contacts for each technology:
Ultrasonic: 5 type only
Vibration: 8 type only
Buoyancy: 6 type only
- 4) Specify the applicable A, B, C, D, and E dimensions at the end of the part number based upon the number of sensors in your assembly (ie: AZ28-4343-87"-76"-17"):
1-sensor: Specify A and B
2-sensors: Specify A, B and C
3-sensors: Specify A, B, C and D
4-sensors: Specify A, B, C, D and E
- 5) The dimensions may be specified in 1/2" (1.3 cm) increments.
- 6) The track length or A-dimension may be specified from 8" to 10' (20 cm to 3m). The sensor or B, C, D, and E dimensions may be specified from 4" to 10' (10 cm to 3m).
- 7) For maximum field adjustability, specify all sensor dimensions equal to the A-dimension.
- 8) To calculate the track adder, round the A-dimension to the next foot (30 cm).

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Smart Trak Profile



Specifications are subject to change without notice.

Sensors

Vibration



- Typically applied in wastewater media with light coating and/or foaming characteristics
- General purpose classification

Ultrasonic



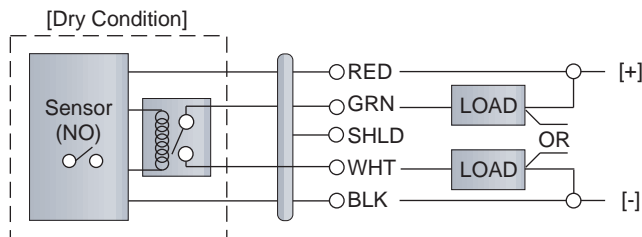
- Broadly applied in chemical, solvent, hydrocarbon and light weight oil media
- Intrinsically safe classification

Buoyancy



- Best applied in clean water or water-like chemical media that is non-coating or scaling
- General purpose classification

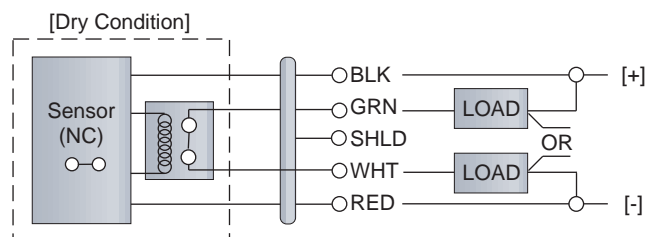
NO Output - DC Powered Load



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

RELAY RATING
[GRN & WHT Wires]
60 VA Max.

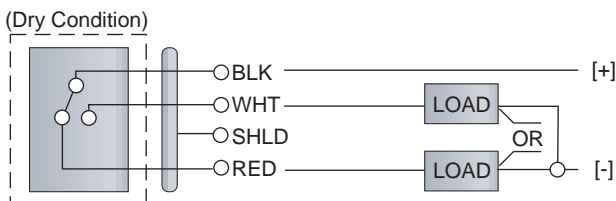
NC Output - DC Powered Load



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

RELAY RATING
[GRN & WHT Wires]
60 VA Max.

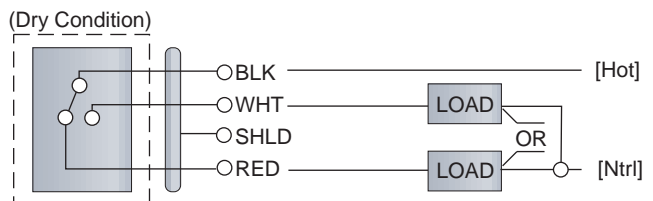
DRY - DC Powered Load



SENSOR WIRING
NO - WHT & BLK Wires
NC - RED & BLK Wires

SENSOR RATING
-13_1: 120 VAC/VDC @ 15 VA

DRY - AC Powered Load



SENSOR WIRING
NO - WHT & BLK Wires
NC - RED & BLK Wires

SENSOR RATING
-13_1: 120 VAC/VDC @ 15 VA