

Switch-Pak™ with Compact Junction Box

Switch-Pak A_1_ 0412 DS0_1

Features

- ✓ PP or PVDF construction for use in challenging corrosive environments
- ✓ Offered in 3 sensing technologies for broad application coverage
- ✓ Compatible with Flowline remote relay controllers and alarms
- ✓ PP enclosure rated NEMA 4X with 300° conduit swivel base
- ✓ Available in intrinsically safe an general purpose configurations

Description

Offered in CSA and Cenelec approved intrinsically safe or general purpose configurations, this high level spill prevention switch package provides a fixed level switch point 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 pressurized and/or highly corrosive bulk storage, day tank and waste sump applications. Specify the appropriate sensor technology, material and assembly dimension.



Specifications

Length:	6" to 10' (15 cm to 3m)
Switch point:	1 (set by factory)
Orientation:	± 30° vertical
Process temp.:	F: -40° to 194° C: -40° to 90°
Pressure:	AU1_: 150 psi (10 bar) AZ1_: 150 psi (10 bar) AV1_: 25 psi (1.7 bar)
Wetted material:	424_: PP 524_: PVDF Kynar®
Process mount:	_243: 2" NPT _247: 1 1/2" G
Enclosure rating:	NEMA 4X (IP65)
Installed height:	3.6" (9.1 cm) above tank process mount
Encl. material:	PP, UL94V0
Conduit entrance:	Single, 1/2" NPT
Termination:	2-4 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

Switch-Pak Ordering

A 1 - 24 -

Sensor technology (1)

- Z Vibration
- U Ultrasonic
- V Buoyancy

Contacts / classification (2)

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

Wetted material (3)

- 4 PP
- 5 PVDF

Process mount (4) (5)

- 3 2" NPT (US)
- 7 1 1/2" G (Metric)

Dimensions (6) (7)

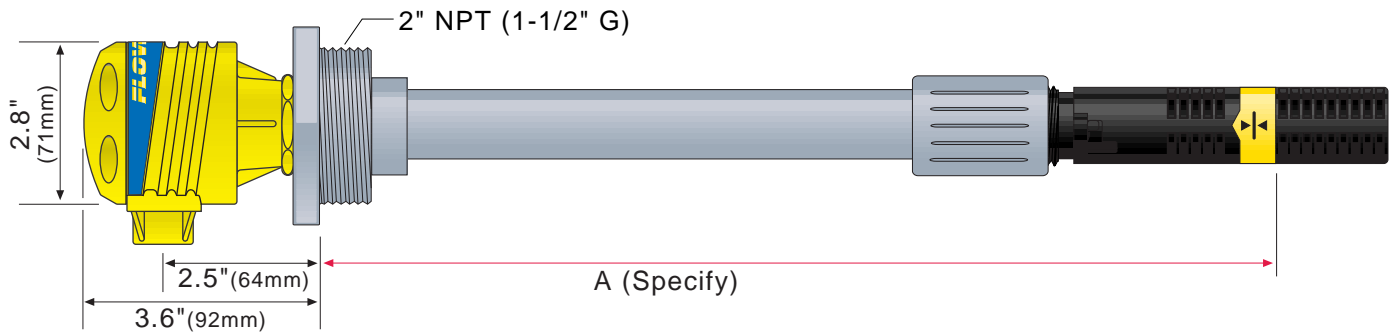
- A Specify (PP)
(PVDF)

Ordering Notes

- 1) Select the best sensor technology based upon your application.
- 2) The following are the available contacts for each sensor technology:
Ultrasonic: 5 type only
Vibration: 8 type only
Buoyancy: 6 type only
- 3) The following are the available wetted materials for each sensor technology:
Ultrasonic: 4 and 5 type
Vibration: 4 type only
Buoyancy: 4 and 5 type
- 4) The straight G thread version seals with an included Viton® mounting gasket.
- 5) For installation on open tanks, order the LM50-1001 (2" NPT) or LM50-1061 (2" G) side mount bracket.
- 6) Specify the A-dimension at the end of the part number (ie: AV16-4243-17"). The A-dimension may be specified in 1/2" (1.3 cm) increments from 6" to 10' (15 cm to 3m).
- 7) To calculate the length adder, round up the A-dimension to the next foot (30 cm) and multiply it by the selected material adder.

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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

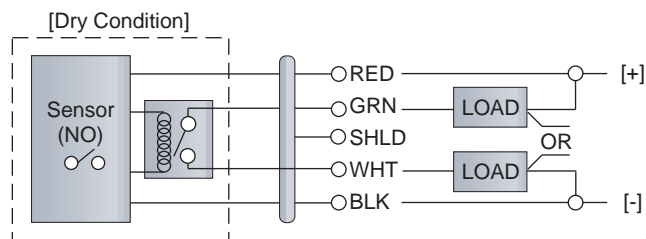
Ultrasonic

- 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

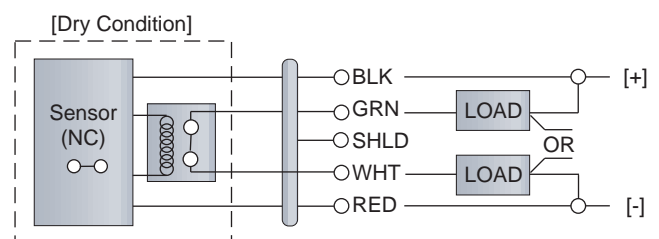
NO Output - DC Powered Load



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

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

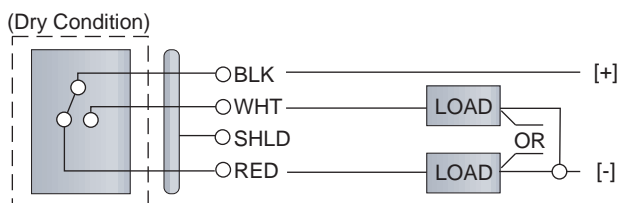
NC Output - DC Powered Load



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

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

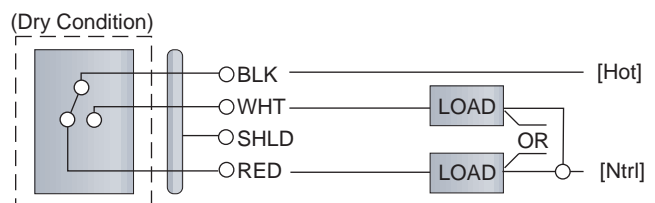
DRY - DC Powered Load



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