Switch-Pro ™

with Compact Junction Box

Specifications

Orientation:	± 20˚ horizontal
Process temp.:	F: -40˚ to 194˚
	C: -40˚ to 90˚
Pressure:	AU1_: 150 psi (10 bar)
	AZ1_: 150 psi (10 bar)
Wetted material:	AU1_: PP / PFA
	AZ1_: PP-Ryton®
Process mount:	3/4" NPT (3/4" G)
Enclosure rating:	NEMA 4X (IP65)
Encl. material:	PP, UL94VO
Conduit entrance:	Single, 1/2" NPT
Termination:	2-4 poles
CE compliance:	EN 61326 EMC
	EN 61010-1 safety

Ultrasonic sensor

Supply voltage:	12-36 VDC
Consumption:	25 mA maximum
Contact type:	(1) SPST relay
Contact rating:	GP: 60 VA
	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:	60 VA
Contact output:	Selectable NO/NC
Classification:	General purpose

Description

Installed through the side wall and offered in CSA and Cenelec approved intrinsically safe or general purpose configurations, this high or low level switch package includes a 1A relay or dry contact closure for remote PLC, SCADA or alarm interface. The product is typically selected for bulk storage, day tank and process vessel applications. Specify the appropriate sensor technology and material. The NEMA 4X enclosure is made of UL approved fire retardant PP and features a 300° swivel base for easy conduit alignment. The power and switch conductors are prewired to the terminal strip.

Features

- PP, PVDF or PFA wetted material for challenging corrosive liquids
- Offered in 3 sensing technologies for broad application coverage
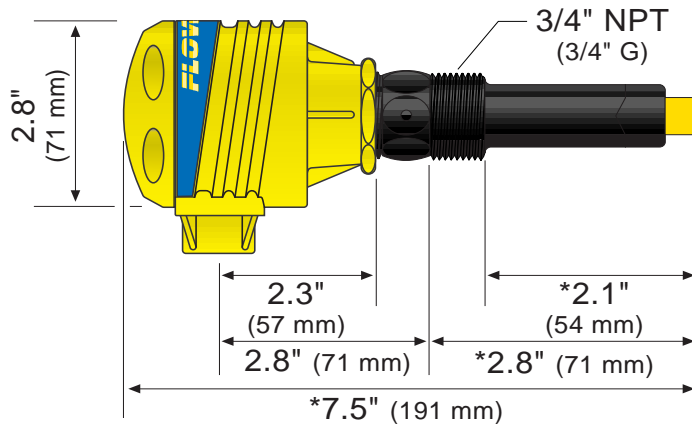- PP enclosure rated NEMA 4X with 300° conduit swivel base

Switch-Pro Ordering

A 1 - 13

Sensor technology (1)
- Z Vibration
- U Ultrasonic

Contacts / classification (2)
- 5 SPST relay / IS
- 6 SPDT reed / GP
- 8 SPST relay / GP

Wetted material (3)
- 1 PP
- 2 PFA

Process mount (4)
- 0 3/4" NPT (US)
- 4 3/4" G (Metric)

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
3) The following are the available wetted materials for each sensor technology:
   Ultrasonic: 1 and 2 type
   Vibration: 1 type only
4) The straight G thread version seals with an included Viton® mounting gasket.

Switch-Pro™ with Compact Junction Box

Smart Trak Profile

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

2.8" (71 mm)

2.3" (57 mm)
*2.1" (54 mm)

2.8" (71 mm)
*2.8" (71 mm)

*7.5" (191 mm)

Specifications are subject to change without notice.
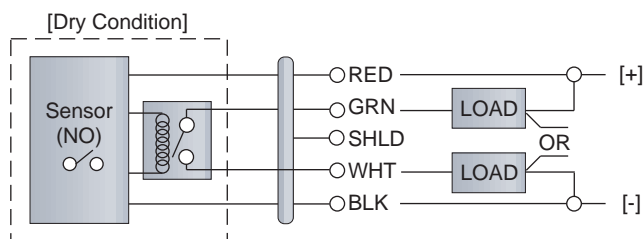
Sensors

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
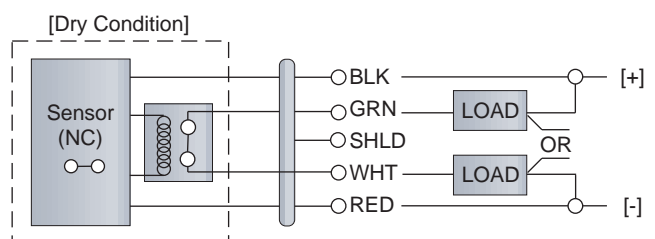- Intrinsically safe classification

NO Output - DC Powered Load

[Dry 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]
60 VA Max.

NC Output - DC Powered Load

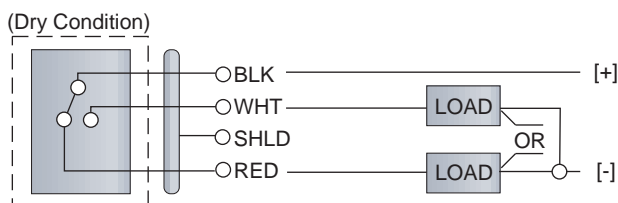[Dry Condition]

Sensor (NC)

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

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

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

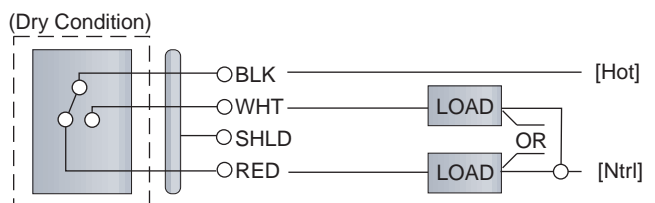## DRY - DC Powered Load

(Dry Condition)

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

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

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

DRY - AC Powered Load

(Dry Condition)

BLK — [Hot]
WHT — LOAD
SHLD — OR
RED — LOAD — [Ntrl]

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

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