# Switch-Pak™ AX1X

with Compact Junction Box



## **Application**

The intrinsically safe or general purpose level switch package provides high or low liquid level detection with one relay or reed switch output, and a compact junction box for wiring termination. Available in three level sensor technologies, choose the sensor type based upon your application media. This PP or PVDF level switch package is selected for bulk storage, IBC or drum, and neutralization tank applications, connected to a PLC or relay controller.



### **Features**

- Rugged polypropylene or PVDF construction for use with corrosive liquids
- Available in intrinsically safe and general purpose classifications
- 60VA relay or 15VA dry contact switches selectable NO or NC via wiring
- Offered in three sensing technologies for broad application coverage
- Polypropylene enclosure rated NEMA 4X with swivel base for conduit alignment



## **Key Benefits**

- Ideal single-point high or low level switch solution for PLC or controller input
- Available in three sensor technologies and two materials for all types of liquid media

## **Sensor Technologies**



**LU10** 

### **SWITCH-TEK™**

**Ultrasonic Level Switch - IS**Broadly applied in chemicals

and light weight oils





Vibration Level Switch

- GP

Applied in wastewater with



LV10

### SWITCH-TEK™

Vertical Buoyancy Level Switch

- GP

Applied in clean water and

# Switch-Pak<sup>™</sup> AX1X

with Compact Junction Box



### **Specifications**

Length: 6" to 10' (15cm to 3m) Accuracy: ± 1mm in water Repeatability: ± 0.5mm in water Orientation: ± 20° vertical Switch points: 1 (factory set) Supply voltage: AV16: N/A AU18: 12-36 VDC

AZ18: 12-30 VDC

Consumption: AV16: N/A

AU18 / AZ18: 25 mA max.

Contact type: AV16: (1) SPDT reed

AU18 / AZ18: (1) SPST

relay

Contact rating: AV16: 15 VA, 0.25A max.

AU18 / AZ18: 60 VA,

1A max.

Contact output: Selectable NO / NC Process temp.: F: -40° to 176°

C: -40° to 80°

F: -40° to 140° Ambient temp.:

C: -40° to 60° Installed height: 3.6" (9.1cm) above

tank process mount

Pressure: AV16: 25 psi (1.7 bar)

AU18 / AZ18: 150 psi

(10 bar)

Enclosure rating: NEMA 4X (IP65) Enclosure mat.: PP, UL94VO Terminal strip: 6-pole, socket Cond. entrance: 1/2" NPT Wetted material: AV16-224X: PP

AU18-224X: PP AU18-524X: PVDF AZ18-424X: PP-Ryton®

Process mount: -X243: 2" NPT

-X247: 1-1/2" G

Classification: AV16 / AZ18: general

> purpose, AU18: intrinsically safe (see LU10 data sheet

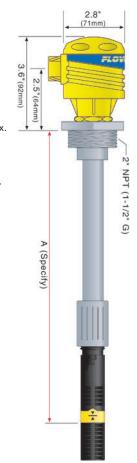
for details)

Compliance:

**DIMENSIONS** (4) (5) Specify (PP)

(PVDF)

### **Dimensions**



### **Fittings**

For optimum performance, install Switch-Pak™ using the below recommended or direct equivalent fittings.

	P/N	DESCRIPTION
	LM52-2400	3" NPT x 2" NPT, PVC, schedule 40
	LM52-2800	3" NPT x 2" NPT, PVC, schedule 80
	LM52-3800	4" NPT x 2" NPT, PVC, schedule 80
	LM52-2410	3" socket x 2" NPT, PVC, schedule 40
	LM52-3410	4" socket x 2" NPT, PVC, schedule 40
	LM52-2810	3" socket x 2" NPT, PVC, schedule 80
_	LM52-3810	4" socket x 2" NPT, PVC, schedule 80
	LM52-2890	2" NPT bulkhead, PVC





### **Relay Control**

For remote relay control, add a LC4X (general purpose) or LC9X (isolation) controller to Switch-Pak™. They're available in two configurations with one or two switch inputs and one or two relay outputs for pump shut off, valve closure or alarm actuation.



#### **Ordering** 1 24 SENSOR TECHNOLOGY (1) Z Vibration - GP ш Ultrasonic - IS Buoyancy - GP CONTACTS (2) SPDT reed 6 8 SPST relay WETTED MATERIAL (3) 4 **PVDF** 5 PROCESS MOUNT -NPT (US) 3 G (Metric)

### **NOTES**

- Select the best sensor technology based upon your application.
- Available only in the following configurations:

Vibration = AZ18 (General purpose with relay contact) Ultrasonic = AU18 (Intrinsically safe with relay contact) Buoyancy = AV16 (General purpose with reed contact)

- PVDF is only available with ultrasonic or buoyancy sensors.
- Specify the A-dimension at the end of the part number (ie: AV16-4243-17"). The dimension may be specified in 1/2" (1.3cm) increments from 6" to 10' (15cm to 3m).
- To calculate the length adder, round up the A-dimension to the next foot (30cm), multiply it by the selected material, and add that sum to the price. For PP, add \$10 per foot (30cm). For PVDF, add \$50 per foot (30cm).