

## Roto-Switch™ Rotary Paddle Level Indicator

### APPLICATION

The Roto-Switch rotary paddle switch is designed to detect high and low levels of bulk granular solids in bins, tanks, silos, and as blockage detectors in spouts.

### METHOD OF OPERATION

The detection of material is achieved by a rotating paddle. If material impedes the rotation of the paddle, the motor topples of its axis and triggers a contact. The power supply to the motor is cut and the contact signals that a critical level has been reached, which will cause the motor for any inlet or outlet to close down or start up. When the level of the material reaches normal levels again, the motor returns to its initial position and restarts.

In the case of a power failure, the Roto-Switch has a fail-safe relay that will signal the control room or sound an audible alarm indicating that the unit is not working. Through the control circuit, this alarm can stop any motor filling or emptying the silo.

### FEATURES

- ▶ Glass Fiber Reinforced Nylon Housing
- ▶ Vertical Extensions to 14 Feet are Available
- ▶ Power Fail Alarm
- ▶ Automatic Power Shut-Off
- ▶ Relay Contact Output
- ▶ 4 Paddle Versions Available
- ▶ Heavy Duty Version Available\*

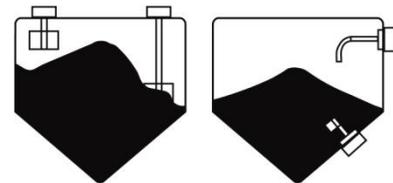
### PART NUMBERS/ACCESSORIES

- ▶ RLI1V6FCA Roto-Switch 110/240 VAC or 24 VDC
- ▶ RLI2V6FCA Heavy Duty Roto-Switch 110/240 VAC or 24 VDC
- ▶ RLISP1 Insertable Paddle
- ▶ RLISP2 Insertable Paddle
- ▶ RLISP3 Three Vane 5" Diameter Paddle
- ▶ RLISP4 Three Vane 7" Diameter Paddle
- ▶ SMP Side Mounting Plate
- ▶ SMPS Side Mounting Plate - Stainless Steel
- ▶ TMP Top Mounting Plate
- ▶ TMPS Top Mounting Plate - Stainless Steel

*\*Heavy Duty Versions - Available with stainless steel bearings and Teflon/stainless shaft seals. Ideally suited to wet and humid conditions.*



### Mounting Options (Top & Side)

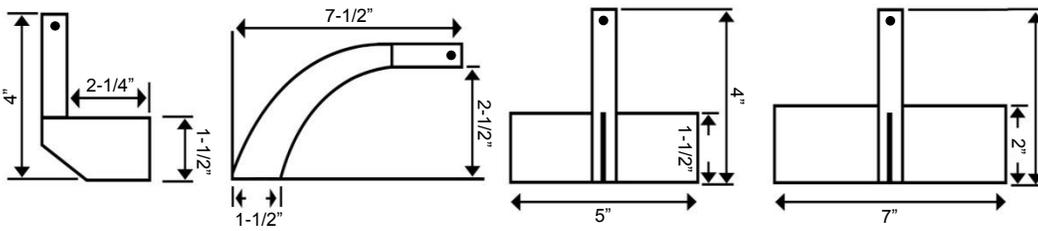


Please refer to instruction manual for correct installation. Information subject to change or correction. Mar 2014

# Roto-Switch™

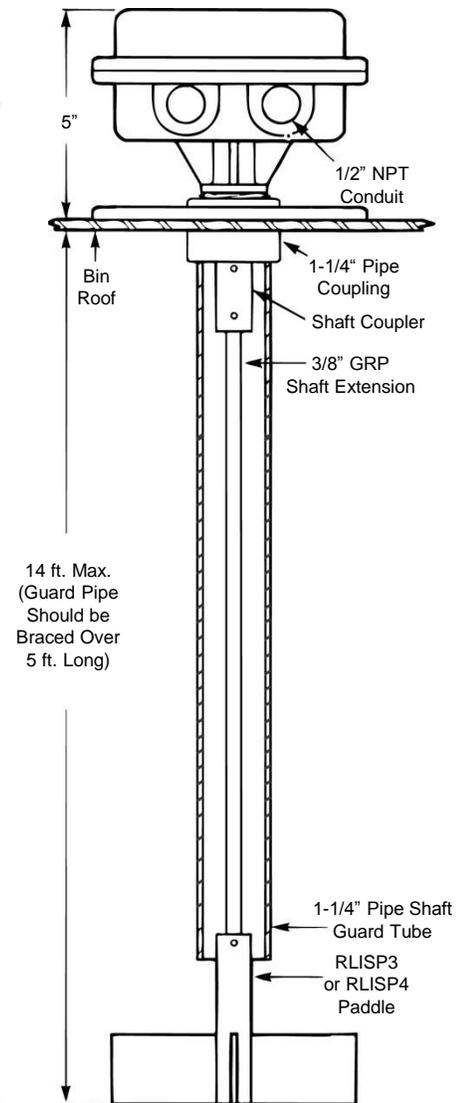
BETTER BY DESIGN

## PADDLE VARIATIONS



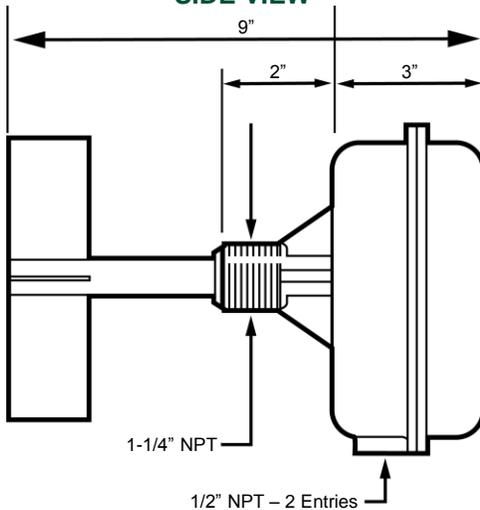
RLISP1	RLISP2	RLISP3	RLISP4
Single Vane - Insertable for Materials Over 70 PCF (Coal, Stones, Etc.)	Single Vane - Insertable for Materials 30 - 70 PCF (Powders, Light Grain & Seed)	Three Vane for Materials 30 - 70 PCF (Grain, Beans, Oil Seeds)	Three Vane for Materials Under 30 PCF (Flour & Light Materials)

## WITH SHAFT EXTENSION

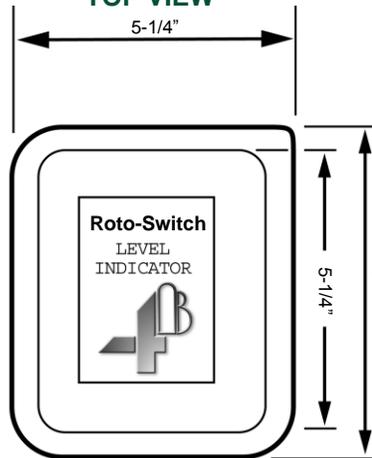


14 ft. Max. (Guard Pipe Should be Braced Over 5 ft. Long)

## SIDE VIEW



## TOP VIEW



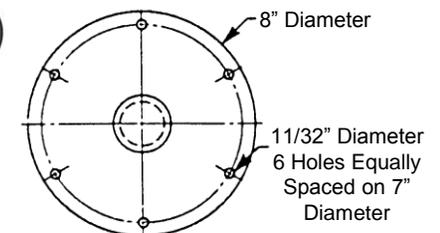
## TECHNICAL SPECIFICATIONS

Roto-Switch Rotary Paddle Level Indicator

RLI1V6FCA	
Power Supply:	120/240 VAC or 24 VDC (Selectable)
Supply Tolerance:	± 10%
Power Consumption:	400 mA
Fuse:	1 Amp
Operating Temperature:	-13°F (-25°C) to 176°F (80°C)
Output:	Voltage Free Relay - 1 Pole Normally Open 1 Pole Normally Closed
Contact Rating:	Rated at 5 Amps/240 Volts
Conduit Entry:	Two, 1/2" NPT
Mounting:	1-1/4" NPT
Connections:	Screw Terminal Block
Enclosure:	Flame Retardant Glass Reinforced Nylon
Weight:	2.25 lb. (Power Pack Only)
Protection:	IP65 - NEMA 4
Approvals:	CE - Europe



## MOUNTING PLATE



Detailed specification, wiring diagrams and installation/operating instructions available upon request.

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