

RLI

Basic Rotary Paddle Level Indicator

APPLICATION

The RLI 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 off 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.

FEATURES

- ▶ Glass Fiber Reinforced Nylon Housing
- ▶ Vertical Extensions to 14 Feet are Available
- ▶ Automatic Power Shut-Off
- ▶ Limit Switch Contact Output
- ▶ 5 Paddle Versions Available

PART NUMBERS/ACCESSORIES

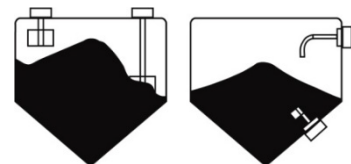
- ▶ RL11V6FCA RLI (18-24 VDC/37-240 VAC)
- ▶ RL12V6FCA RLI, Heavy Duty (18-24 VDC/37-240 VAC)
- ▶ RLISP1 Small single blade paddle, SS
- ▶ RLISP2 Scimitar single blade paddle, SS
- ▶ RLISP3 Medium 3 blade paddle, SS
- ▶ RLISP4 Large 3 blade paddle, SS
- ▶ RLISP5 Spring loaded twin blade paddle, SS
- ▶ SMP Side Mounting Plate, Zinc Plated
- ▶ TMP Top Mounting Plate, Zinc Plated
- ▶ RLIOEXG/1 RLI outer extension guard, 1m
- ▶ RLIFGEX RLI fibre glass extension rod, 1m
- ▶ RLISC1 RLI shaft coupler, SS



RLI1V6FCA &
RLISP3 Paddle



Mounting Options (Top & Side)

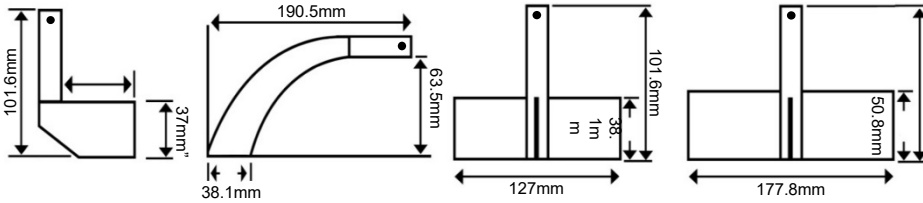


RLISP1 Paddle

RLISP2 Paddle

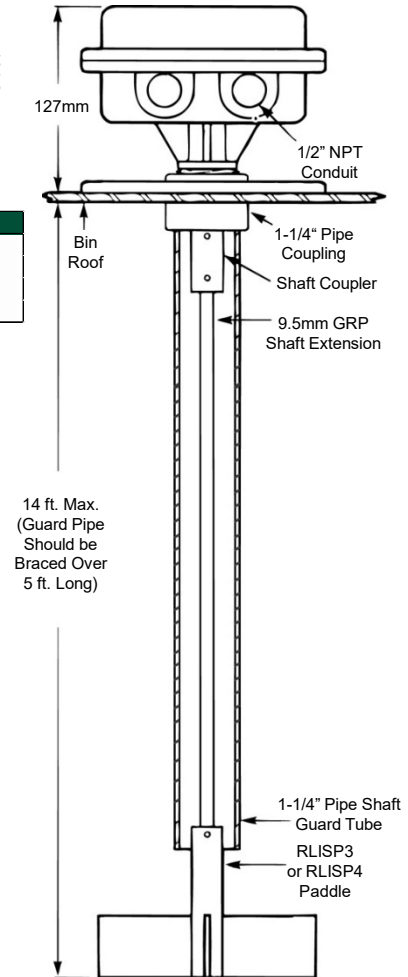
Please refer to instruction manual for correct installation. Information subject to change or correction. May 2022

PADDLE VARIATIONS



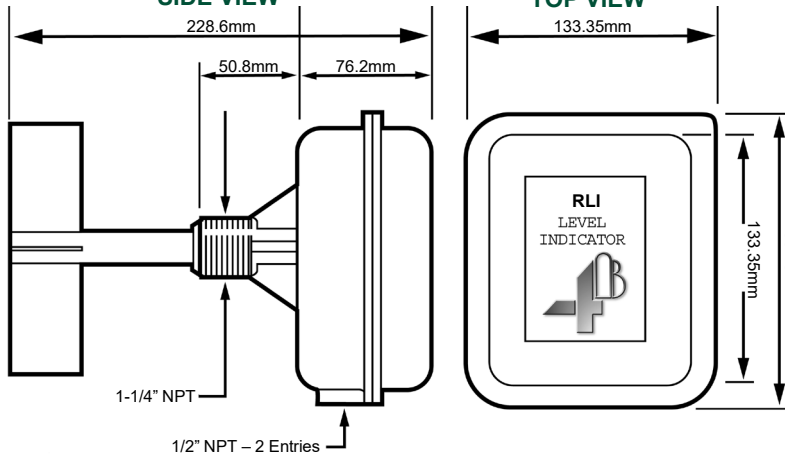
RLISP1	RLISP2	RLISP3	RLISP4
Single Vane - Insertable for Materials over 1120 kg/m ³ (Coal, Stones, Etc.)	Single Vane - Insertable for Materials 480 - 1120 kg/m ³ (Powders, Light Grain & Seed)	Three Vane for Materials 480 - 1120 kg/m ³ (Grain, Beans, Oil Seeds)	Three Vane for Materials Under 480 kg/m ³ (Flour & Light Materials)

WITH SHAFT EXTENSION



SIDE VIEW

TOP VIEW



TECHNICAL SPECIFICATIONS
RLI Rotary Paddle Level Indicator

RLI1V6FCA and RLI2V6FCA	
Power Supply:	18-24 VDC/37-240 VAC
Supply Tolerance:	± 10%
Power Consumption:	30 mA
Fuse:	1 Amp
Operating Temperature:	-25°C to + 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:	0.95kg
Protection:	IP65 - NEMA 4
Approvals:	CE - Europe

MOUNTING PLATE

