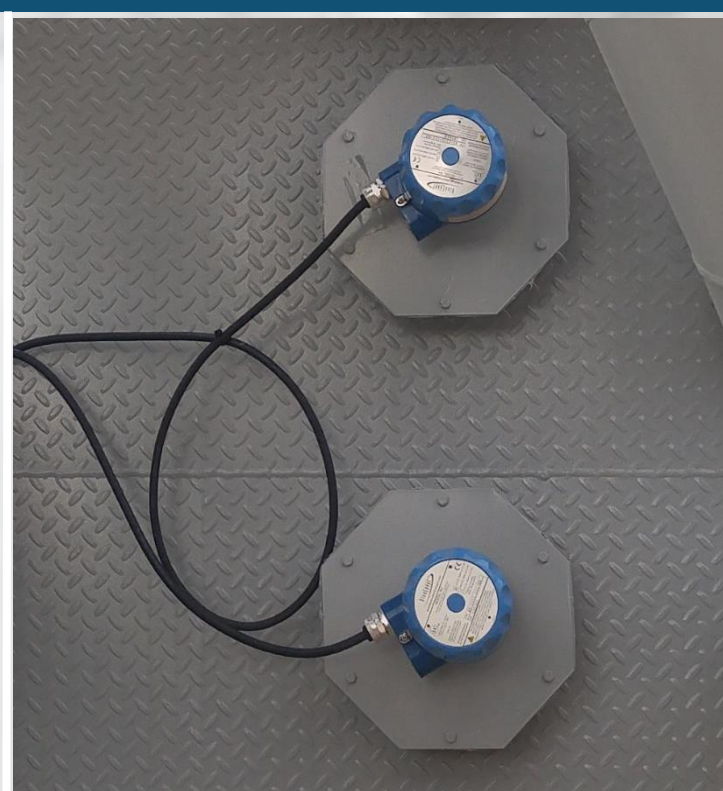


MODEL RH/RHX

Rotary Paddle Bin Level Indicator

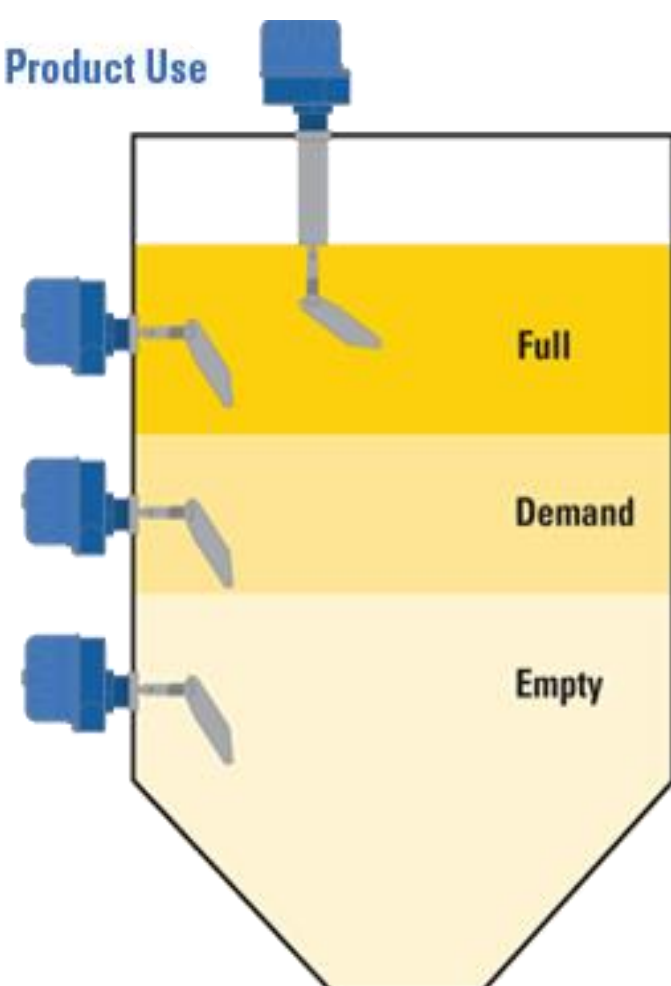
Our industry standard workhorse level detection sensor for powders and bulk solids – reliable, low maintenance, high value and high reliability.



ABOUT

These rugged and reliable rotary paddle bin level indicators are the most universal sensor for detecting the presence and absence of bulk solids ranging in density from 5 to over 100 pounds per cubic foot (80 to 1600 kilograms per cubic meter). Model RH/RHX units are provided with fail-safe relay output, high intensity LEDs for local indication (RH only), an industry standard 1-1/4" process connection, two conduit entrances and food grade materials of construction. All units are available with folding or fixed paddles for easy installation from outside the bin and can be top or side mounted.

Product Use



- ✓ SUPER BRIGHT LED's locally indicate Normal / Alarm status
- ✓ Rugged aluminum enclosure with powder coat finish (FDA Compliant)
- ✓ Twist off cover
- ✓ Selectable High/Low fail-safe output on power failure
- ✓ Four bearing shaft assembly increases reliability and life
- ✓ Internal bi-directional clutch protects motor
- ✓ Various voltages
- ✓ Automatic motor shut-off
- ✓ DPDT relay output
- ✓ Removable wiring terminals
- ✓ Interchangeable with other brands accessories
- ✓ Adjustable sensitivity (if needed)
- ✓ Dual conduit entrances



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MODEL RH/RHX

Rotary Paddle Bin Level Indicator



Technical Data

Housing	Die-cast aluminum, FDA compliant powder coat, NEMA Type 4X, IP65
Process Temp	Up to 300° F (149° C)
Ambient Temp	-40° F to +158° F (-40° C to +70° C)
Sensitivity	Low Level ≥ 5lbs/ft ³ , High Level ≥ 10lbs/ft ³ , Adjustable setting
Motor Voltage	24VAC, 115VAC, 230VAC, 12VDC or 24VDC
Output	DPDT Relay, 8A @ 250VAC
Process Connection	1-1/4" NPT powder coated
Bearings	Four (4) sealed bearings
Certifications	Ordinary Location; CE mark; Hazardous Location

Ordering Information

4 0 - 1 **X** **X** **X** - 1 **X** **X**

Power Supply	Approvals	Shaft Coupling
1 - 115VAC 2 - 230VAC 3 - 24VAC 4 - 12VDC 5 - 24VDC	1- Ordinary Location 2- Hazardous Location	1- None 2- Standard Coupling 3- Optional Coupling
Process Connection	Temperature	
1- 1-1/4" NPT aluminum	1- Standard 2- High	

Principal of Operation

For several decades rotary paddle technology has been used as a method for detecting the presence and absence of bulk solid materials.

A robust synchronous motor drives a stainless-steel output shaft at approximately 1 RPM. The paddle is attached to the shaft and rotates freely in the absence of material within the bin.

Material presence surrounding the paddle in the bin will impede its rotation and cause the state of the built-in relay contacts to change, indicating material presence. The built-in LED's will change to indicate the status of the alarm condition.

Application and Use

High (full), low (empty), intermediate (demand) level indication, and plugged chute detection, are common applications within a wide variety of industries. Prevention of bin overfilling and material outage conditions are typical uses of these devices. The Model RH and RHX rotary paddle bin level indicators can be used to detect materials with density from 5lbs/ft³ (80kg/m³) for low and intermediate level control applications and from 10lbs/ft³ (160kg/m³) for high level indication.

Example materials include plastic pellet, food stuffs, feed and their ingredients, grains, cement, aggregate materials, nuts, flour, resins, sand, coal, chemicals, limestone, wood, sawdust and many more.

Model RH/RHX Rotary Paddle Accessories

- Insertable folding 1- and 2-vane paddles
- Std. 5" Dia. & Large 7" Dia. threaded tri-vane paddles
- Insertable threaded Banana and 1-vane heavy duty paddles
- 2 and 4-vane heavy duty threaded paddles
- Extension shafts and shaft guards
- Mounting plate kits



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