

Model RH/RHX

Rotary Paddle Bin Level Indicator

Lighting the way!

The most universal level detection sensor for powders and bulk solids - exceptional value and highly reliable.



The Next Level

Folding Paddle Shown (P/N 410003)

BlueLevel[®]
technologies

- ✓ Local indication - high intensity LED's
- ✓ Suitable for most bulk materials
- ✓ Long life - four bearing design
- ✓ Automatic motor shut-off
- ✓ Protects your process - fail safe output
- ✓ Easily replaces other brands
- ✓ Extensions and wide variety of accessories
- ✓ You are protected - *golden parachute support*

Principal of Operation

A robust synchronous motor drives a stainless steel output shaft at approximately 1 RPM. The paddle is attached 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 state to indicate the status of the alarm condition; blue = 'normal' and red = 'alarm'.

Application and Use

High (full), low (empty), intermediate (demand) level indication, and plugged chute detection, are common applications within a wide variety of industries. The Model RH and RHX rotary paddle bin level indicators can be used to detect materials with densities from 5lbs/ft³ (80kg/m³) for low and intermediate level applications and from 10lbs/ft³ (160kg/m³) for high level indication. Materials include plastic pellets, food products, feed and their ingredients, grains, cement, aggregate materials, nuts, flour, resins, sand, coal, chemicals, limestone, wood, sawdust and many more.

Models Available

- 24VAC, 115VAC, 230VAC, 12VDC or 24VDC
- Standard Process Temperature (Up to 300° F / 149° C)
- High Process Temperature Versions Available (Up to 750° F / 399° C)
- Ordinary or Hazardous Locations

Technical Data Summary

Housing:	Die-cast aluminum, FDA compliant powder coat, NEMA Type 4X, IP65
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
Output:	DPDT Relay, 8A @ 250VAC
Fail-Safe:	Selectable Hi/Low on power failure
Pressure:	30PSIG/2 Bar max.
Process Connection:	1-1/4" NPT powder coated
Conduit Ports:	(2) 3/4" NPT
Bearings:	Four (4) sealed bearings
Certifications:	• Ordinary Location; conforms to CSA/UL 61010-1 (ED.2): 2004, CE Mark • Hazardous Location; conforms to CSA-C22.2 No. 30-M1986 (R2007)/C22.2 No. 25-1966 (R2009) & UL 1203 (ED.4); Cls. I Group C & D, Cls. II Group E,F, & G

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Available 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

Ordering Information

Final Assembly Part Number Structure

40 - 1 **XXX** - 1 **XX**

Shaft Coupling

- 1- None
- 2- Standard Coupling
- 3- Optional Coupling

Process Connection

- 1- 1-1/4" NPT aluminum

Power Supply

- 1 - 115VAC
- 2 - 230VAC
- 3 - 24VAC
- 4 - 12VDC
- 5 - 24VDC

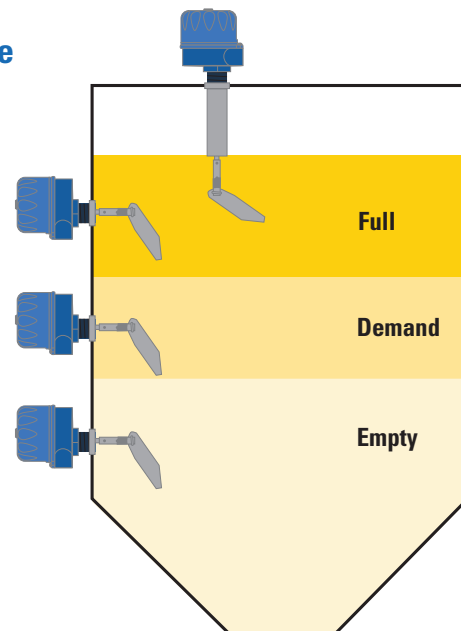
Approvals

- 1- Ordinary Location
- 2- Hazardous Location

Temperature

- 1- Standard
- 2- High (stainless steel)

Product Use



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