

Roto-Bin-Dicator[®] **PRO**



ACTIVELY PROTECTING VALUABLE INVENTORY

The Roto-Bin-Dicator[®] PRO is a paddlewheel type level device that outperforms others in its class. This simple device monitors the level of dry bulk material and indicates when there has been a change. The fail-safe PRO model is unique in that it comes standard with functional diagnostics that detect a unit fault even when the paddle is buried in material; unlike other paddlewheel devices.

The PRO provides added reliability by employing redundant methods of detection. These methods monitor shaft rotation as well as motor behavior, making it more reliable with regards to not missing a reading or creating a false positive.

FEATURES AND BENEFITS

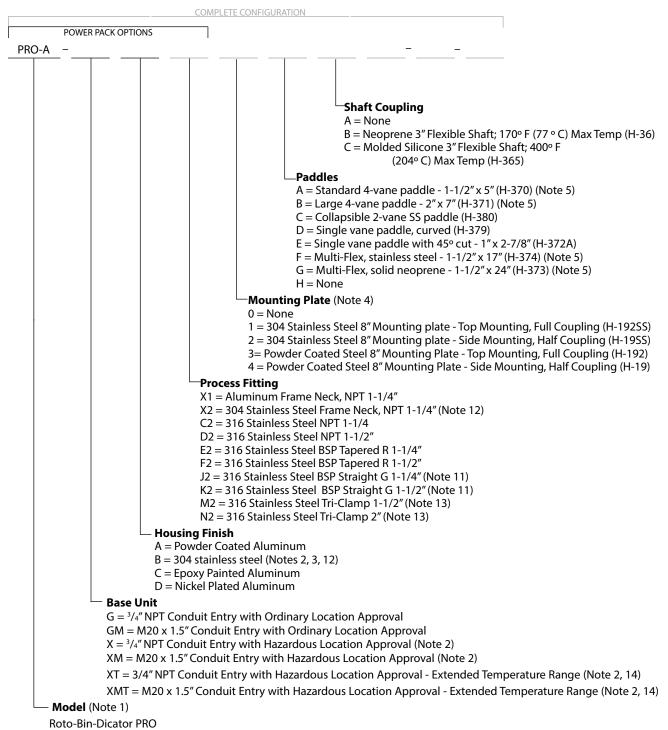
- Diagnostics While the paddle is in or out of material self-checks are performed to detect unit faults which are differentiated and alerted through LED flash codes
- High/Low Level Failsafe user selectable
- Motor Pause optional setting, motor function will pause after a prolonged period of time where no change in material state is detected, saving power and extending the life of the unit
- **Time Delay** delay the activation and deactivation of the alarm relay
- **Sensitivity Adjustments** motor torque can be adjusted +/- 30% to match materials of varying bulk densities
- **Test FOB** check the functionality of the unit without removing the cover and while the paddle is in or out of material
- Universal Input Power provides flexibility to match power availability
- **Fault Option** optional setting, critical faults trigger an alarm, eliminates need to jumper relays to obtain genuine fail-safe operation
- Unique Frame Design to enable connection flexibility
 - Imperial or Metric conduit thread options
 - Process Fitting can be made to fit any connection
 - Extension and lag configurations available for added shaft length or high temperature applications

DETECT & DIFFERENTIATE FAULTS

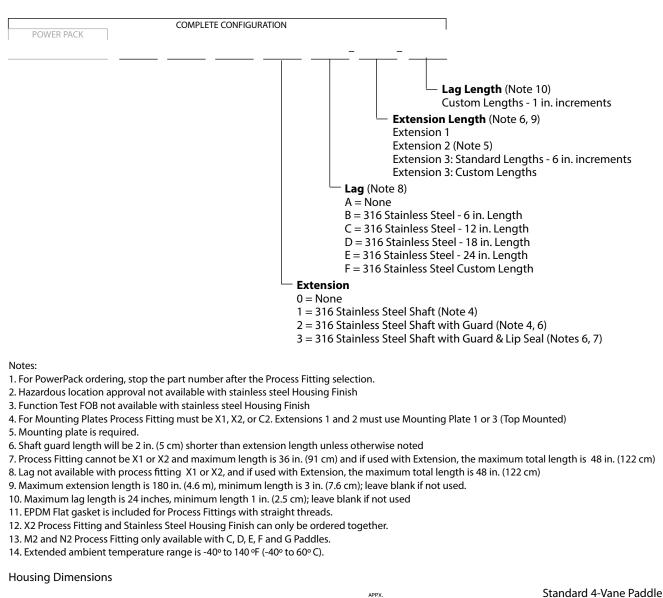
FUNCTIONAL DIAGNOSTICS	
The power supply voltage is too low.	
The motor has become disconnected from the power supply.	
The electronic boards have gone outside the accepted temperature range.	
The motor has stopped functioning normally.	
Internal rotation mechanics are bound.	
Communication error between the LED (top) and power supply (bottom) elec- tronic boards.	
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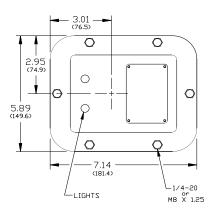
FUNCTIONAL DIAGNOSTICS

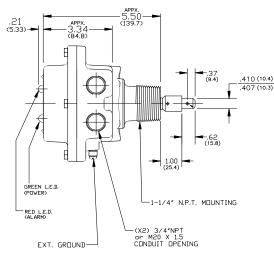
ROTO-BIN-DICATOR PRO - PART ONE

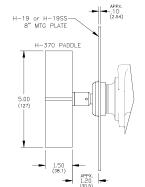


ROTO-BIN-DICATOR PRO - PART TWO









Roto-Bin-Dicator® PRO

SPECIFICATIONS

Operating Power

Power Consumption

Ambient Temperature

Process Temperature

FUNCTIONAL

Outputs

PERFORMANCE

Time Delay

Sensitivity

Diagnostics

Flex Shaft

Shipping Weight

Enclosure Material

Dual Conduit Entry

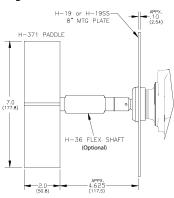
Mounting Plate Material

Rigid Shaft and Paddle

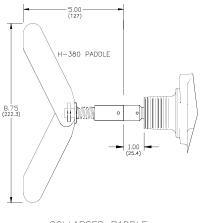
PHYSICAL

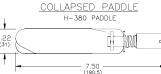
Fail Safe

Large 4-Vane Paddle



Collapsible Paddle





AGENCY APPROVALS

UL (US and Canada)

- Ordinary Location, Type 4X; IP66
- Hazardous Locations, Type 4X
 Explosion Proof, Class I, Div 1, Groups C, D
 Dust Ignition Proof, Class II, Div 1, Groups E, F, G

ATEX/IEC/IECex (Pending)

Dust and Gas Categories

CE

- Electromagnetic Compatibility Directive
- Low Voltage Directive



Universal, 120-240 VAC, 50/60 Hz or 24-48 VDC

Ordinary Location: -40° to 158° F (-40° to 70° C) Hazardous Location: -4° to 140° F (-20° to 60° C)

Up to 500° F (Up to 260° C) with Extension 3 and Lag Main Relay: 8A DPDT @ 240 VAC or 30 VDC (resistive)

Auxiliary Relay: 0.46A SPDT @ 150 VAC or 30 VDC

Minimum 3.4 lbs/ft³ (54 kg/m³); Field Adjustable;

LED Indicators with blink codes; see IOM for code

Aluminum, Epoxy Coated Aluminum, Stainless Steel

Metal parts of all designs are 316 stainless steel Available in neoprene, 155° F (68° C) or silicone, 400° F

3 watts (1.8 watts in Pause Mode)

Extended: -40° to 140° F (-40° to 60° C) -20° to 302° F (-29° to 150° C) Standard

Field Selectable; up to 25 seconds

Field Selectable; high/low level

or Nickel Plated Aluminum

Mild Steel or 304 Stainless Steel

Aluminum housing 10 lbs (4.5 kg)

Stainless steel housing 16 lbs (7.3 kg)

3/4" NPT or M20 x 1.5

(204° C) coatings

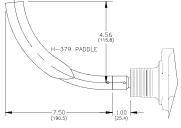
Hazadrous Location,

Paddle Dependent

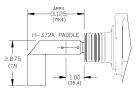
interpretation



Single Vane Paddle Curved



Single Vane Paddle 45° Cut





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