Rotating Paddle Point Level Switch

SILENT FEATURES

Flexible coupling (optional as per application)

Robust, dust and watertight housing

Extended Probe possible.

Extended life by motor shut off design

Sealed Bearings

Interchangeable paddle assemblies,

Magnetic Clutch mechanism



FUNCTION

A small electric motor drives the paddle, which rotates freely in the absence of material. Impeded by material the motor will be turned within the housing while loading a spring and triggering two switches. One of them is a dry electric contact for control and alarm functions while the other cuts the power to the motor. When the material level drops, the loaded stretched tension spring returns the motor to its original position and the unit is reactivated

APPLICATION

Our heavy duty, rotary paddle switches are the most suitable for level detection of dust granules and other free flowing solids up to the particle size of $\emptyset 10$ mm. Mounted in bins, silos and hoppers it can be applied for control of level, filling and emptying as well as for protection against overfilling

PRIMARY AREA OF APPLICATION

Building industry materials, cement, sand, lime, etc.

Foodstuff industry, milk powder, flour, salt, food grains, etc.

Plastic industry, powder, granular etc.

Timber industry, chemical and mining etc.

MAIN AREA OF APPLICATION

Agriculture : Beet slice, hard crop,

Chemical industry : Plastic powders, granules, pellets Food industry : Sun flower, sun flower cod,

Building industry : Sand, calcium powder, gypsum, coffee and cacao powder, flour, sugar,

etc. Energetics : Active soot, coal powder, fly ash

NUMBER & MATERIAL OF VANES

Specific gravity and particle size of the material provides orientation for the number of vanes. Most commonly used is the stainless steel, single vane blade. The lowest specific gravity for this paddle is 0,4 kg/dm3. For lighter materials the use of 3- or 4-vane paddle is recommended.

NOTE: for side mounting applications, we suggest to use single vane paddle only.

PROBE LENGTH

Standard protrusion length of the unit is 150 mm. Longer protrusion is provided by the (up to 3 m)

TECHNICAL SPECIFICATIONS (STADARD)

SWITCHING UNIT:

: Aluminum, weather proof, powder coated. Integral with the Housing

probe.

Cable entry : 2 nos.

Ambient temperature : 0° C to $+60^{\circ}$ C

Power consumption : 1.9 VA

Mains Voltage : 230/110 V AC (+/-15%),50 Hz

: 1 sets of potential free c/o contacts rated at Output

5 amps, 230 V AC for non-inductive loads.

Switching delay : Green LED shows Normal, Red LED shows alarm condition

Mounting : Screwed – 1 ½" BSP (standard) Or Flanged (optional)

Sense Rod : Stainless steel, 12 MM DIA

Paddle : 1 up to 4 Paddles depending up on application.

Operating process Temp : 80° C for the standard unit (Special case up to 200°C)

Continuous efforts for product development may necessitate changes in these details without notice

Authorised Dealer



Instruments Y-

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