

ROTATING PADDLE - POINT LEVEL SWITCH (SERIES-2400)

SALIENT FEATURES:

- Robust - Dust and Watertight housing
- Extended Probe also available.
- Extended life by motor shut off design.
- Sealed bearings.
- Interchangeable paddle assemblies.
- Magnetic Clutch mechanism.



APPLICATION

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

PRINCIPLE OF OPERATION

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 off 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

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.

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 cocoa powder, flour, sugar, etc. Energetic: active soot, coal powder, fly ash

TECHNICAL SPECIFICATIONS

SWITCHING UNIT

Housing.....	Aluminum, Integral with the probe/suitable for back panel mounting.
Cable entry.....	1/2" - 3/4" NPT
Ambient temperature.....	0° C to + 60° C
Power consumption.....	2 VA
Mains Voltage.....	230 V AC (+/- 15%), 50 Hz,
Output.....	2 sets of potential free contacts rated at 5 amps, 230 V AC for non -inductive loads.
Switch status display.....	Green LED shows Normal, Red LED shows alarm.
Mounting.....	Screwed - 1 1/2" BSP Or Flanged.
Sensor rod.....	Stainless steel, 12 mm DIA
Paddle.....	1 - 4 Paddles depending upon application.
Operating Temp.....	80 deg for the standard unit. 200°C ON REQUEST
Probe length.....	150mm (STD).....3000mm
Process Connection.....	1 1/2"NPT

NUMBER AND 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, use of single vane paddle is recommended

ROTATING PADDLE - POINT LEVEL SWITCH ORDERING INFORMATION

2400-						
MEASURING RANGE mm.....	Please Specify					
PADDLE MATERIAL Stainless steel		A				
Others (Please Specify)	B					
PADDLE Single Vane.....		1				
Double Vane.....		2				
Four Vane.....		3				
MOUNTING NPT.....			C			
BSP.....			D			
Flanged.....			E			
Others (Please Specify).....			G			
OPERATING TEMP 0°C TO 80°C.....				4		
Others (Please Specify).....				5		
PRESSURE(kg/cm²)					Please Specify	
PROTECTION Weather proof.....						W
Explosion proof.....						E

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Specifications Subject to change without prior notice