



Grown...to meet challenges

30+ years in Process Control Instrumentation

## Orbit - Rotary Paddle Level Switch

Version 3.2

### Principle

A paddle is rotated slowly by a stepper motor. An encoder coupled to the paddle shaft produces electrical pulses during its rotation. The pulses are monitored by a microprocessor to ascertain its movement. Paddle rotation stops when the material covers it. The microprocessor signals the material presence and sends the result in the form of potential free contacts. When the material uncovers the paddle's blades, the motor resumes free operation, which is detected by the microprocessor. Thereafter, the output status is changed and the motor starts rotating smoothly again waiting for the level to come.

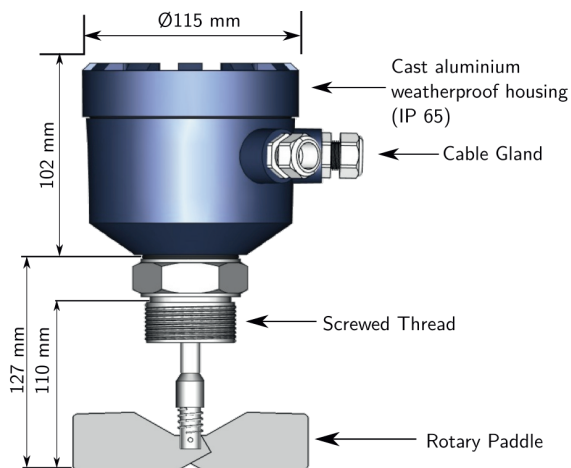


**Approvals** CE Marking, RoHS Compliance, Flameproof Enclosure (Gas Groups IIA, IIB)

### Features

- Built-in universal power supply of 90-265 VAC and 24-55 VDC
- Direct stepper motor design, maintenance-free
- Need for gear boxes and clutches eliminated
- Variable torque control, one paddle for all applications
- Flap action to discard clinging material
- Selectable fail-safe operation
- Foldable paddle mechanism for ease of installation
- 2 potential free contacts with adjustable time delay

### Parts



### Technical Specifications

<b>Housing:</b>	Cast aluminium weatherproof, flameproof (Gas groups IIA, IIB)
<b>Cable Glands:</b>	2 X 13.5 PG Glands / 1/2" BSP / NPT
<b>Temperature:</b>	Standard Model: 0°C to 80°C High Temperature Model: up to 200°C
<b>Power Consumption:</b>	3 VA (approx.)
<b>Operating Voltage:</b>	90-265 V AC & 24 V DC (Universal Supply)
<b>Output:</b>	2 sets of potential-free contacts
<b>Indication:</b>	LED (Normal:Green,Alarm:Red)
<b>Mounting:</b>	Threaded: 1-1 1/2" BSP/NPT,
<b>Wetted Parts:</b>	SS 316 / SS 304
<b>Switching Delay:</b>	3-5 sec. (Covered, Uncovered)
<b>Checking Interval:</b>	Up to 25 sec., set by DIP switch
<b>Probe Length:</b>	110 mm to 1000 mm (Insertion), extensible up to 3500 mm for rope probe; Rod probe available

### Applications

- Chemical, PVC Powders
- Animal Feed Industry
- Food Processing
- Plastic Chips
- Cement
- Pharmaceuticals

*Manufacturing Level Instruments & Speed Monitoring Systems*

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