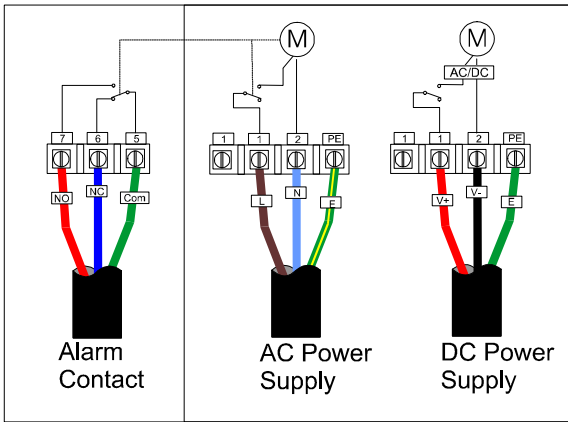
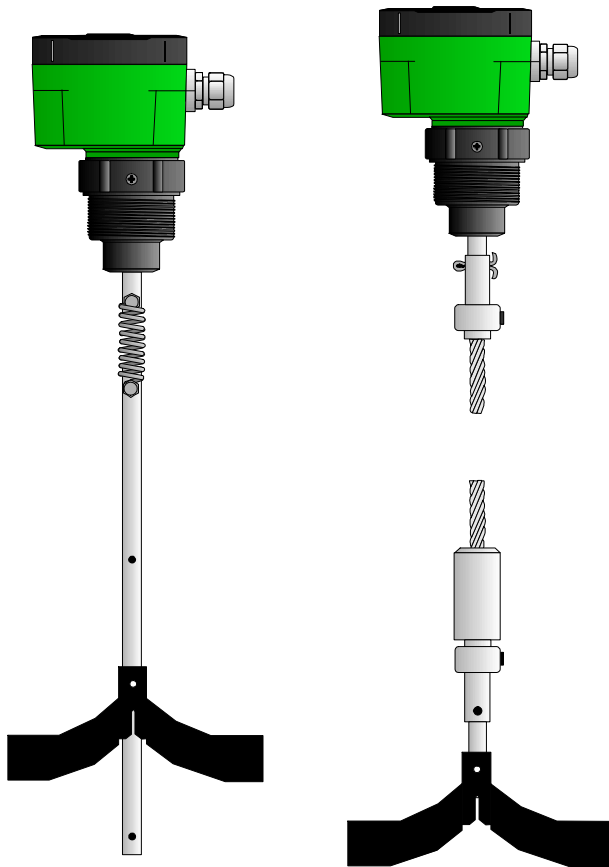


FIGURE 4 - Wiring Diagram



Pendulum Shaft extension kit
Up to 1 m, holes drilled every

Rope extension kit
Up to 2m, rope can be cut to any length



SPECIFICATIONS

Housing	IP65 Die-cast plastic PA6 with fibreglass
Process Connection	Plastic PA6 with fibreglass Threaded : 1.5 inch DIN, 1 inch DIN, M32 x 1.5, M30 x 1.5 or 1" NPT Flanged versions also available.
Vane Shaft	Stainless steel, high grade slide bearing, sealing to DIN 3760
Measuring Vane	Plastic PP
Cable Gland	PG13.5
Pickup Delay	approx. 1.3 seconds
Sensitivity	Adjustable via the reset force of the spring
Vane Rotation Speed	1 rpm
Supply Voltages	230/240 V AC 50/60 Hz (changeable to 110/120 V AC 50/60 Hz) 110/120 V AC 50/60 Hz (changeable to 230/240 V AC 50/60 Hz) 48 V AC 50/60 Hz (changeable to 24 V AC 50/60 Hz) 24 V AC 50/60 Hz (changeable to 48 V AC 50/60 Hz) 24 V DC
	Dependant upon model
	All voltages +10% -15%
Installed Load	3VA (3W)
Signal Output Contacts	Floating Microswitch 250 V AC, 2 A, 500 W (cos $\phi=1$) 300V DC, 2A, 60 W
Max. Vessel Pressure	0.8 bar, 80 kPa
Min. Product Density	60 kg/m ³ , 60 g/ltr
Max. Solid Particle Size	50 mm diameter
Temperature Range	-20 °C to +60 °C ambient -20 °C to +80 °C inside vessel



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PULSAR
Process Measurement



User Guide

PULSAR point
300

Paddle Switch

APPLICATIONS

The PULSAR point 300 paddle switch is a cost effective electro-mechanical point level switch for use on bulk solids applications.

The PULSAR point 300 paddle switch can be used as a high level (full) alarm, a low level (empty) alarm or as a demand indicator.

The PULSAR point 300 paddle switch can be mounted at any angle.

The PULSAR point 300 paddle switch can be used on most bulk solids including powders, granular and dusty media.

Typical products for monitoring include:

- | | |
|-----------------------|-------------------|
| ⇒ plaster | ⇒ cereals |
| ⇒ cement | ⇒ cocoa |
| ⇒ chalk | ⇒ sugar |
| ⇒ lime | ⇒ animal feeds |
| ⇒ granulated products | ⇒ washing powder |
| ⇒ wood chips | ⇒ plastic powders |

MODE OF OPERATION

A low rpm synchronous induction gearing motor drives a rotating measuring vane which is mounted inside the vessel.

When the material level reaches the measuring vane it prevents the vane from rotating. The reaction torque is used to operate a microswitch which provides the alarm output and cuts the power to the motor.

When the vane becomes free again, as the material level decreases a spring allows the motor to resume it's operating position and the microswitch restores power to the motor and removes the alarm signal

OPTIONS

- ⇒ 230/240 V AC 50/60 Hz, 110/120 V AC 50/60 Hz, 48 V AC 50/60 Hz, 24 V AC 50/60 Hz or 24 V DC Power supply
- ⇒ 1.5 inch DIN, 1 inch DIN, M32 x 1.5, M30 x 1.5 or 1" NPT Process connections.
- ⇒ Weather protection cover
- ⇒ Protective Roof
- ⇒ Hex Locking Nut in aluminium or stainless steel
- ⇒ Second cable gland
- ⇒ Signal display in the lid (24 V DC only)
- ⇒ 2 m Stainless Steel Rope extension kit (see back page)
- ⇒ 0.5 m or 1.0 m Pendulum shaft extension kit (see back page)

PULSAR point 300 Paddle Switch

Rotating Paddle Switch for bulk solids applications.

INSTALLATION

Remove the vane from the shaft, screw the paddle switch into the process connection from the outside of the vessel. Tighten clockwise using a spanner on the hexagonal section.

The unit should be installed with the cable gland at the bottom to prevent water ingress, see Figure 1.

Tighten the locking screw on the hex section of the unit.

The paddle switch can be secured using a locknut fitted from the inside of the vessel if an unthreaded process connection is used, see Figure 2.

From the inside of the vessel re-fit the vane to the shaft using the split pin provided, see Figure 2.

If there is no access to the inside of the vessel then remove one of the vanes using a hacksaw and swing the paddle switch through the process connection, see Figure 3.

Remove the lid and connect the power supply and relay contacts as shown in Figure 4. The power supply and signal output should be fused (4 A max.). The paddle switch must be powered via an isolating switch.

Ensure that the power supply voltage is correct for the paddle switch before wiring the unit up.

The installation is now complete.

FIGURE 1 - Installation

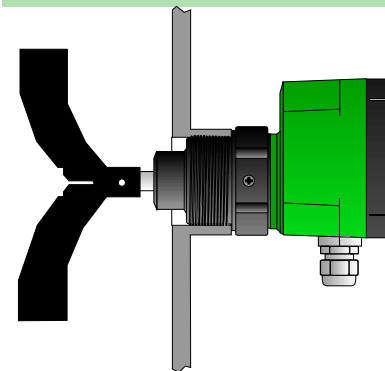


FIGURE 2 - Installation with a locknut

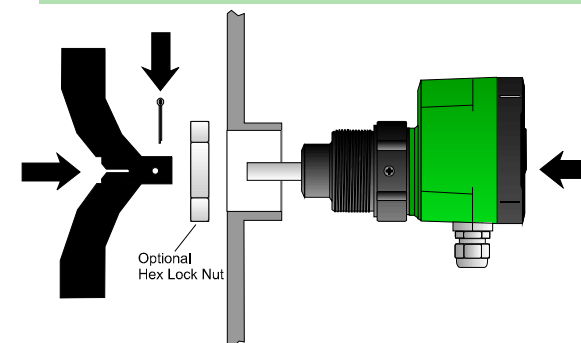
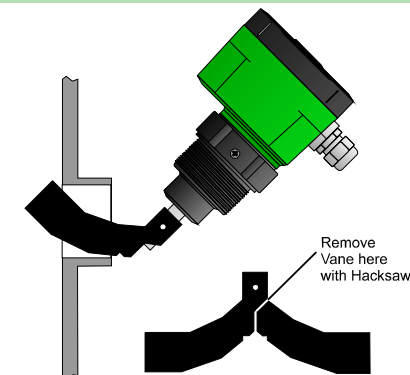


FIGURE 3 - Removal of one vane for installation.



! WARNING !

- ⇒ **ELECTRICAL SHOCK HAZARD** Disconnect power before removing the lid.
- ⇒ Do not use this product as a mains isolating switch.
- ⇒ This product is **not** approved for use in Hazardous Areas
- ⇒ Failure to follow these precautions could result in serious injury or death.
- ⇒ Keep these instructions in a safe place after installation.