

iGRAIN Rotary Paddle Level Sensor

For controlling grain conveyors during filling/unloading of grain silos

The iGRAIN Rotary Paddle Level Sensor is a useful tool to control grain conveyors during filling/unloading. It is a rugged sensor for general use in all types of bulk silos for level point indication in any commodity like wheat, rice, corn etc.

The sensor can be installed where required from the side or from the top of the silo. Extension rods are available for precise top-point level control.

Typically, the rotary switch is installed at the maximum / minimum level point in a silo and is used as a signal relay for material handling start/stop.

Principle of operation

When the rotating paddle is covered by grain, the rotation is halted and the output relay triggered. When cleared, the motor resumes rotation. It has a unique overload slip mechanism which protects the motor automatically.

Paddle design

The slim paddle design makes it possible to install the rotary level switch from outside the silo without accessing the inside.

Advantages

- Durable system with minimal maintenance requirement
- Remote access via the iGRAIN Dashboard Manager if connected via PLC control
- Easy installation from outside
- Relay output
- Enclosure: Cast aluminum, IP 66

Mounting hardware

- 90° mounting plate for top or side mounting
- 90° mounting flange for top or side mounting
- 30° silo roof mounting flange

Part no.	Description
1043-000	Rotary paddle, 24 V DC
1043-001	Rotary paddle, 230 VAC
9120-105	30° mounting flange
9120-102	90° mounting flange (roof / side) for concrete silos
9120-048	90° mounting plate (roof / side)
9120-049	1 m extension rod

