A Guide to Slot Sensors

What is a slot sensor?

A Slot Sensor (also called rate sensor) is an electronic device that is used in granular product application. When coupled to a conveyor shaft that is rotating, it sends flow rate signals to the console.

How is the slot sensor set up in the system?

The slot sensor is attached to the rear roller shaft by an adapter and to the console by a cable. There are various consoles that can be used: Raven—Viper, Envisio, Envisio Pro; TeeJet—ARC 6000.

There are also several types of slot sensors.

Newton Crouch primarily uses

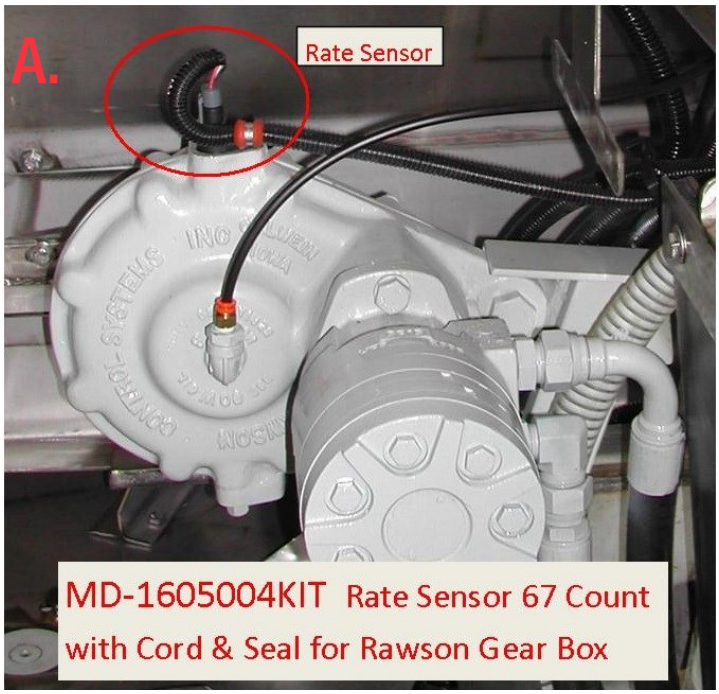
A. the 67 rate sensor with a EXRIV valve

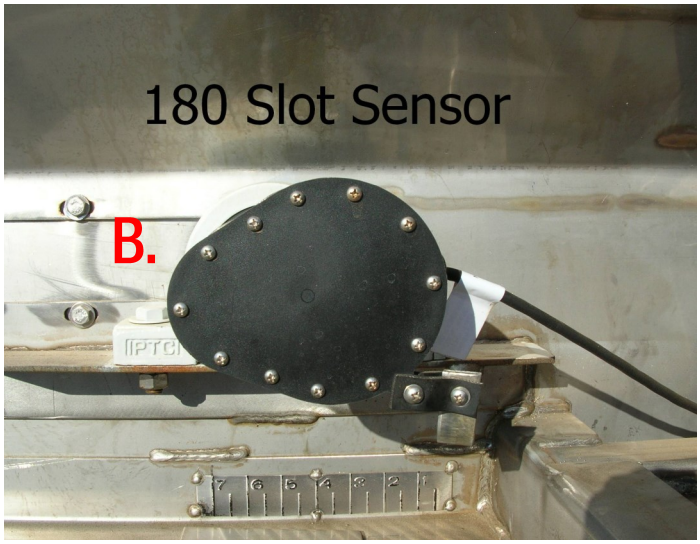
OR

B. the 180 slot sensor with PWM valve

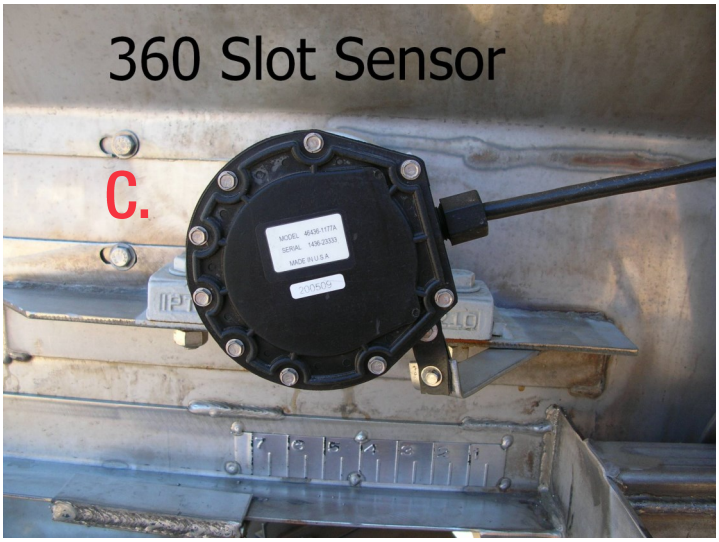
OR

C. the 360 slot sensor with EXRIV valve





RA-0630171443 Slot Sensor 180 count with 25' cable

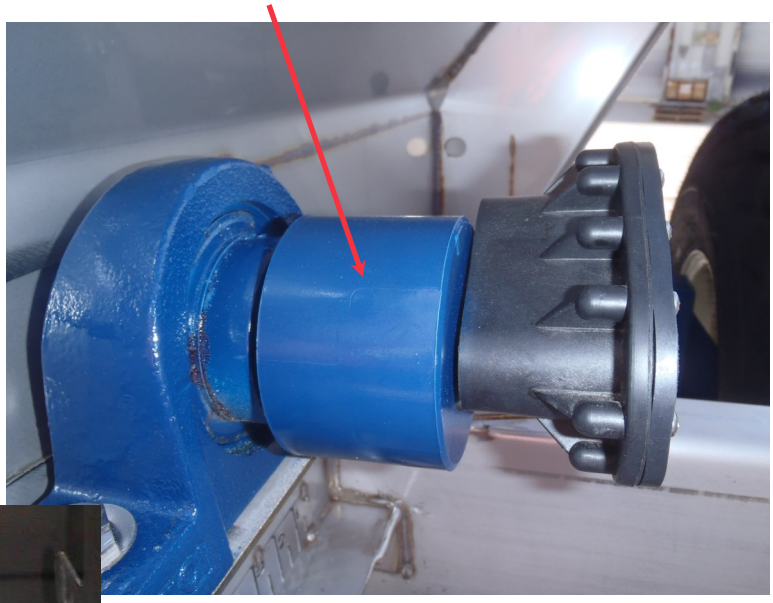


MD-1200009 Slot Sensor 360 count with 25' cable

How does a slot sensor work?

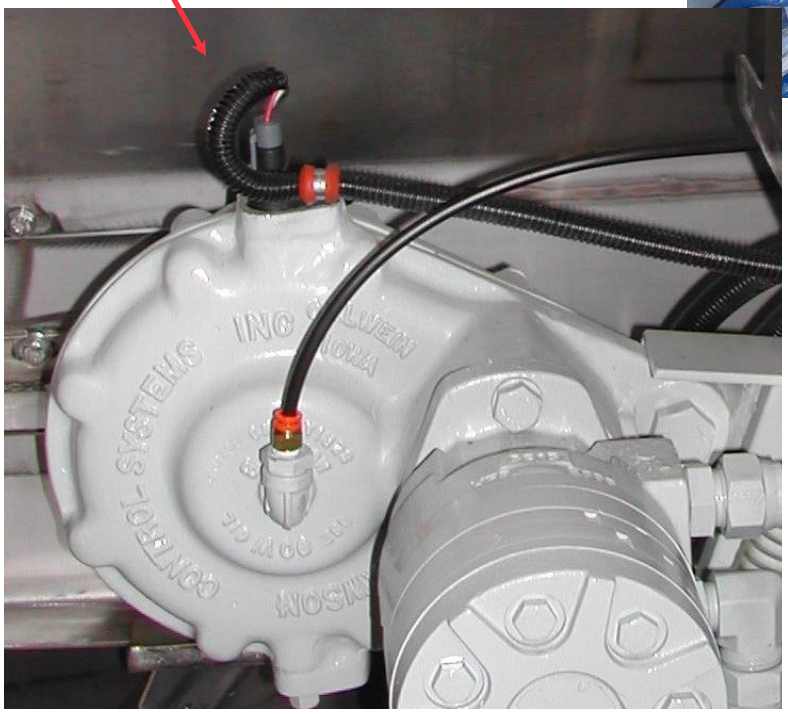
The 180 or 360 slot sensor is attached to the rear roller shaft by an adapter and to the console by a cable.

180 or 360
Slot Sensor



The 67 rate sensor is attached to the top of the Rawson Gear box

and to the console by a cable.



67 Rate Sensor

The sensor measures the revolutions of the rear roller as pulses and sends the count to the console.

The vehicle speed - registered by the radar on the GPS - is also sent to the console.

The console uses the 2 inputs, revolutions + speed, to tell the valve to open or close thus controlling the flow of material to the conveyor. It is the source of the volume tally.

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