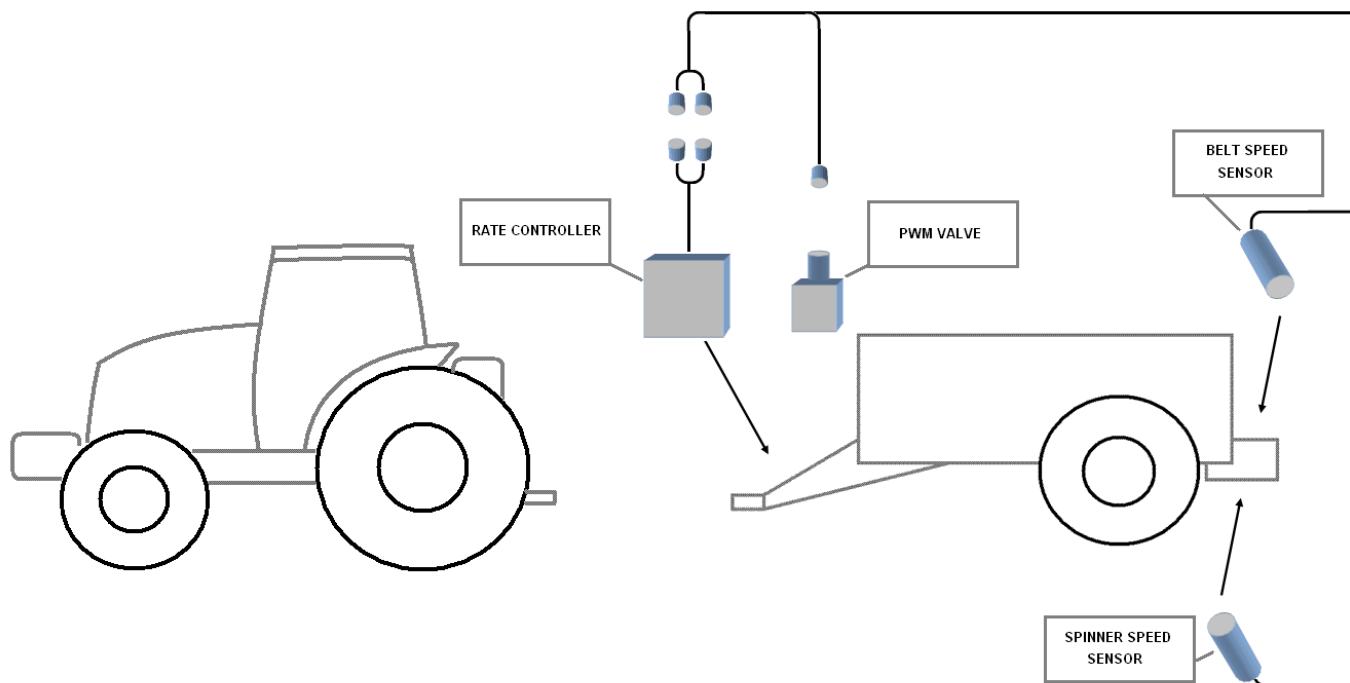


SPREADER RATE CONTROLLER HARNESS (WITHOUT SENSORS)

See your Operators Manual for a complete setup guide. Info here covers important hardware settings only.

OUTLINE

- Basic install shown below
- Rate controller mounted on spreader



CONTROLLER SETTINGS

- Select MENU > RATE CONTROLLER > IMPLEMENT SETUP > BIN1 SETUP
- Enter settings shown below for BIN1 SETUP
- Enter settings shown below for PWM SETTINGS
- Select PRODUCT SETUP > PRODUCT BIN SETUP > BIN1 SETUP
- Enter settings shown below for BIN1 PRODUCT SETUP

Bin 1 Setup	PWM Settings	Bin 1 Product Setup
Conveyor Control Valve Type: PWM Close	Control Valve Calibration: 4511	Product Name: UREA
Conveyor Control Valve Calibration: PWM Settings	Coil Frequency: 122	Feed Gate Opening (cm): 5.0
Conveyor Speed Sensor Calibration: 500	High Limit: 255	CFR (cm ³ /rev): 3000 Calibrate CFR
Heaped Bin Capacity (m ³): 10	Low Limit: 30 Calibrate PWM Limits	

Conveyor Speed Sensor Calibration

- Is the number of pulses from the sensor, during one revolution of the rear roller
- Values between 100 and 1500 perform best

CFR

- Is the cubic cm volume dispensed during one revolution of the rear roller, with the gate at 1cm high
- Values between 1000 and 6000 perform best

SENSORS (THIS KIT IS SUPPLIED WITHOUT SENSORS, THESE ARE JUST EXAMPLES BELOW)

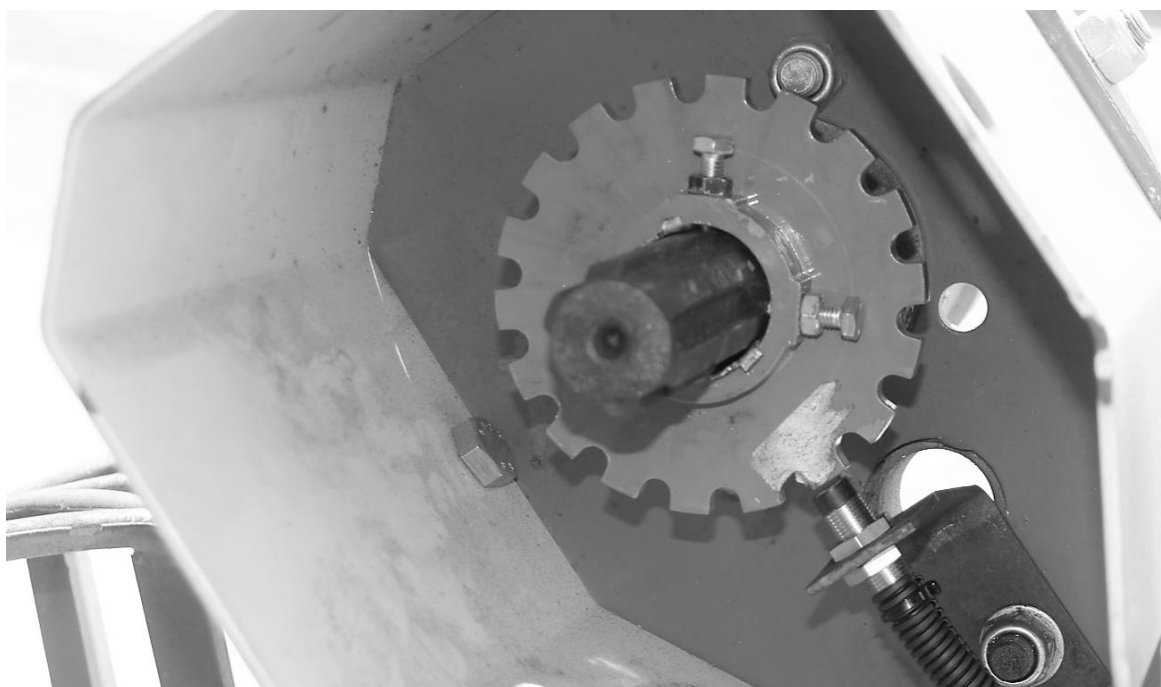
- These are inductive proximity sensors, they do not require magnets
- Each sensor has a yellow light at the rear, to show when it is detecting metal close to the tip

SPINNER SENSOR

- Spinner sensors only require one pulse per revolution
- A single metal tag on the spinner shaft is sufficient
- The tag should be large enough to provide a lengthy pulse
- If the spinner speed drops to zero when you speed them up, the metal tag is too small

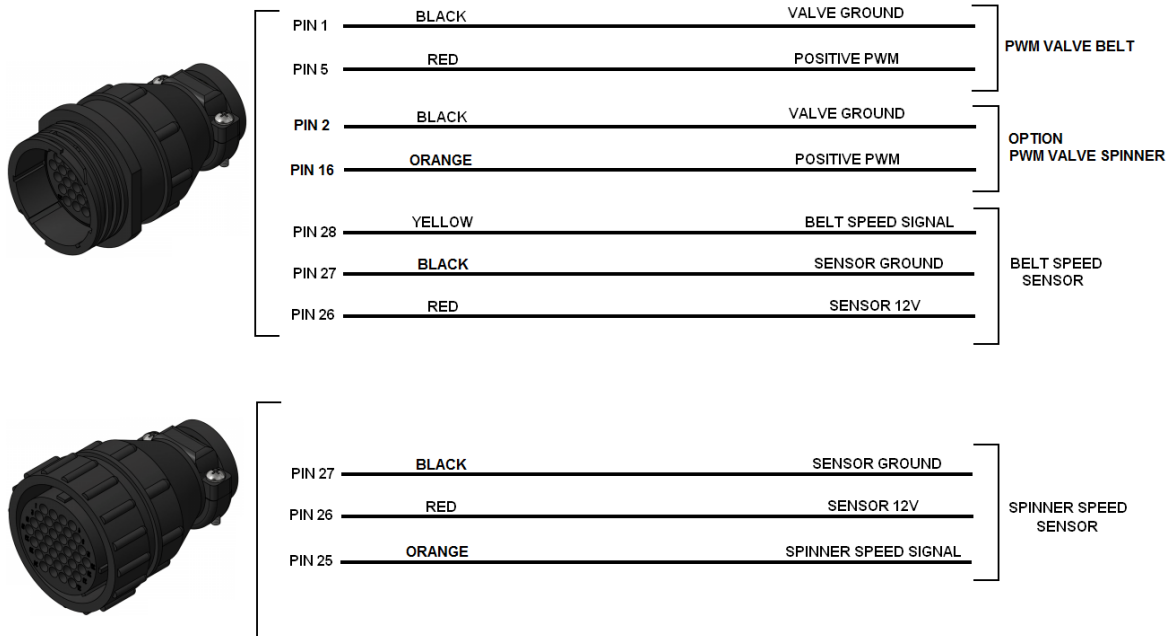
BELT SENSOR

- The sensor must read fast turning shafts
- Position to read directly off hydro motor sprockets or tone wheels (photos below)
- Set with approx 2mm gap to the tip of the sprocket tooth



HARNESS WIRING

- Belt sensor and spinner sensors are wired to 12volt supplies
- Valve is wired for PWM solenoid valve



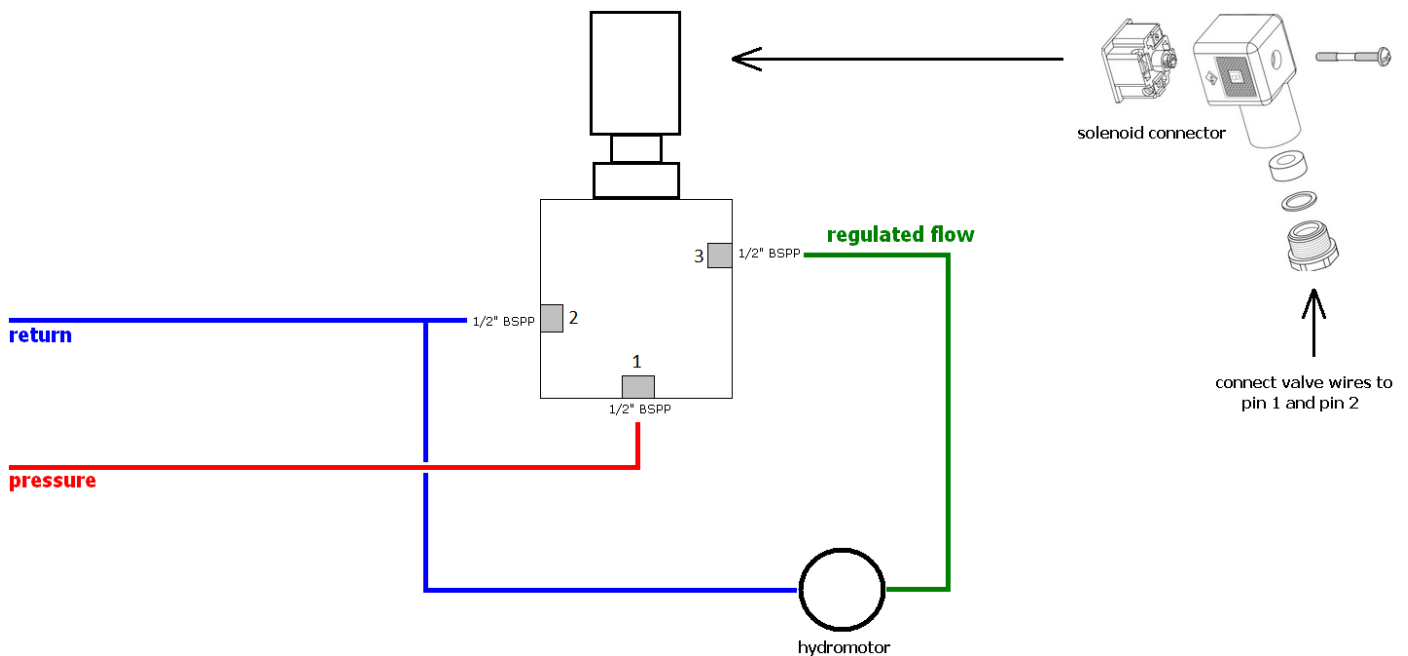
SENSOR WIRING

- For greater reliability, the sensor connections are soldered and sealed to the main harness
- Wire colours going into the sensors are shown below



HYDRAULIC VALVE INFO

- Plumb the hydraulic valve block as shown below (ports are 1/2 inch BSP Parallel thread)
- Excessive oil flow from the tractor will cause unnecessary heat and premature component wear
- Dial the tractor oil flow to provide only the max required amount (start with approx 60%)



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