



## SS-500

The model SS-500 speed sensor/ speed switch is a fully digital unit, designed to withstand the rigors of harsh Mining conditions.

The model SS-500 speed sensor/ speed switch is designed for applications requiring direct coupling to any (non-driven) pulley or similar drive mechanism.

The SS-500 is supplied with a 15mm diameter drive shaft, 150 mm long (which may be cut to suit the length required).

The SS-500 Speed Switch can provide:

- Fail-safe SPDT relay to indicate Belt Speed below the set value.
- Optional - 4-20 mA output proportional to belt speed.
- Optional – Heartbeat Output (with programmable beat rate). Allows the output of pulses when the speed is in a safe zone (not in alarm). The monitoring system can generate an alarm for any

- attempt to shunt the output.
- Optional – Pulsed Output proportional to speed - pulses are programmable. Pulses are output via solid state relay.

*Note:* The SS-500 can provide only one of these possibilities at the same time (Relay, Heartbeat or Pulsed Output).

### Drive Assembly (TDU)

As an option we offer our Precision Drive Assembly (TDU) to simplify installation of the SS-500 into conveyor systems. This drive assembly has been carefully designed to provide:

- Precise conveyor belt interface, so as to eliminate speed measurement errors;
- A drive assembly of the required durability and reliability.
- No interference with existing conveyor pulleys.



The SS-500 tachometer may be fitted to a non-drive pulley by way of a stub shaft or flexible coupling.



## Specifications

Materials/Finish	Cast Aluminium Alloy
Shaft	15mm dia x 150mm
Protection	IP 65 std (flameproof optional)
Output / Resolution	Relay output: 0,5A at 24 VDC (Std) or Namur compliant digital output (optional) or; Solid state relay output (optional) or; RS-485 pulse output (optional) or; 4-20 mA (isolated) into 500 Ω (optional)
Measurement range	24 - 1200 RPM (2400 w/o de-Jitter)
Power	24 VDC (+/- 10%) @ 100mA
Temperature range	-10°C to +70°C,
Mass	2kg
c/w Junction box	2.5Kg (with cable & TJB-154 Junction box)



## TDU for PT-500

Measurement Range	14 - 670 m/min
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