

SS-501

The model SS-501 Speed Switch is a fully digital unit, designed to withstand the rigors of harsh Mining conditions.

A special low speed version (SS-2501) allows measurement of lower conveyor speeds.

The unitised construction with integrated drive assembly makes it a simple task to install the sensor assembly into any belt conveyor stringer. This arrangement has been carefully designed to provide:

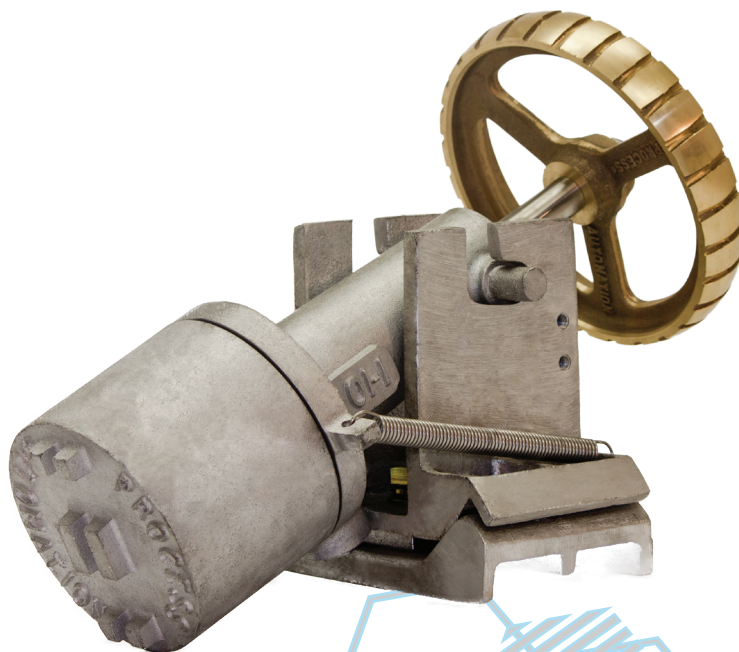
- Precise Speed Switch / conveyor belt interface
- A drive assembly of the required durability and reliability.
- No interference with existing conveyor pulleys.

The SS-501 Speed Switch can provide:

- Fail-safe SPDT relay to indicate Belt Speed below the set value.
- Optional – 4-20mA 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 Speed Switch can provide only one of these possibilities at the same time (Relay, Heartbeat or Pulsed Output).





Specifications

Materials / Finish	Cast Aluminium Alloy Standard (Others optional)
Drive Wheel Diameter	178mm
Protection	IP 66 std (flameproof optional)
Output / Resolution	Relay output: 0.5A at 24VDC (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	SS-501 : 13.5 - 670 m/min SS-2501 : 2.7 - 134 m/min
Power	24 VDC (Maximum 30 VDC, Minimum 20VDC) at 200 mA Maximum (subject to the options fitted)
Temperature range	-10°C to +60°C
Mass	7kg (Excluding cable, junction box & stringer cross support)
c/w Junction box	7.5Kg (with cable & TJB-154 Junction box)

