TRAILING ARM **BELT SPEED SENSOR**

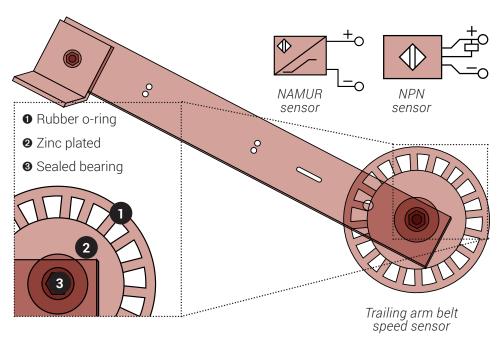
OVERVIEW

The SRO Technology trailing arm speed sensor monitors conveyor belt speed. The output signal is transmitted to a nearby integrator.

The trailing arm type speed sensor uses its own weight to sit on the return side of the conveyor belt to rotate a trailing wheel.

Holes in the trailing wheel allow a proximity switch to pick up a pulse from the wheel as it rotates.

The unit is designed to mount off a cross beam near to the belt scale using the pivoting bolting bracket mounted off the trailing arm unit.



APPLICATIONS

Ideal for mining, grain, and processing plants that use:

- Belt weighers
- Tramp metal detectors
- Continuous conveyor belt speed monitoring
- Under-speed monitoring

SPECIFICATIONS

Operation voltage: +10 to +30 V DC Operating current: ≤ 20 mA Specification: 33.33 pulse/metre Speed range: 0.1 to 3.5 m/s Output signal: Open collector output Operating temperature: -30°C to +50°C

IP Grade: IP67

Overall length: 600mm Wheel diameter: 190mm

FEATURES

Easy-to-fit and durable sensor featuring:

- Zinc passivated finish with sealed bearing for long life and minimal maintenance
- Damp-proof and dust-proof making it suitable for harsh environments
- Skidding on the return belt prevented with o-ring on the wheel
- Options for under speed sensor and intrinsically safe

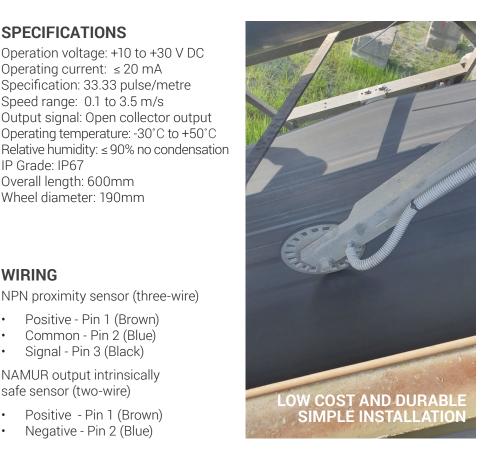
WIRING

NPN proximity sensor (three-wire)

- Positive Pin 1 (Brown)
- Common Pin 2 (Blue)
- Signal Pin 3 (Black)

NAMUR output intrinsically safe sensor (two-wire)

- Positive Pin 1 (Brown)
- Negative Pin 2 (Blue)





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