

### Electro-Sensors Product: SCP1000 Shaft Speed Switch with 255 Pulser Disc

**Application:** Monitor tail pulley for slowdown due to belt slippage, belt breakage, or overloading.

**Purpose:** Unwanted slowdown or stoppage of a sludge conveyor can result in costly machine damage, process downtime and unsafe working conditions. Sludge can be damp or wet – adding significant weight to the conveyor belt leading to belt slippage or slowdown. Conveyor belts can break due to overload, wear and tear, or motor burnout. Shaft speed switches detect these conditions and alert the operator before a crisis becomes a catastrophe.

**How it works:** The SCP1000 Shaft Speed Switch monitors the rotation of the non-driven tail pulley, receiving a digital pulse train from the 255 magnetic pulser disc. The SCP1000 decodes this frequency signal to determine shaft speed and then compares this to the pre-adjusted set point. In the event of a fault condition such as belt slippage or product overload, the relay, pre-calibrated by the operator and can be used to provide an alarm or equipment shutdown, assuring machine protection and process integrity.

### Benefits

- Economical two-piece system
- Rugged and field-tested
- Simple to install and calibrate
- Suitable for hazardous locations
- Proactive machinery protection

