



Electro Sensors Provides  
Speed Detection for Harsh  
and Hazardous Applications

## Electro-Sensors Speed Switch

### Introduction

KWS designs and supplies complete bulk material handling systems that demand precise, reliable, and safe operation. Accurate speed monitoring of rotating shafts is critical to protecting equipment, ensuring operator safety, and minimizing downtime. To achieve this, KWS integrates industry-leading speed sensing technology from Electro-Sensors, a trusted name in shaft speed monitoring solutions.

The Electro-Sensors DR1000 Speed Switch, 907 XP Hall Effect Shaft Speed Sensor, and Standard Split Collar Pulser Wrap work together to deliver a comprehensive, rugged, and highly accurate speed detection system. Engineered for harsh industrial environments and hazardous locations, these components deliver unmatched reliability, safety, and ease of maintenance.

By combining rugged construction, explosion-proof sensing technology, and simple installation, Electro-Sensors products ensure KWS equipment operates at peak performance while protecting against costly failures and unplanned downtime.

### Features

**Durable Construction** – The DR1000 Speed Switch features a rugged NEMA 4X enclosure with corrosion-resistant design, ensuring reliable performance in harsh industrial environments. Engineered for long life, it delivers dependable monitoring in demanding bulk material handling applications.

**Precise Speed Monitoring** – The DR1000 provides continuous shaft speed measurement and alarm output for critical rotating equipment such as screw conveyors, bucket elevators, and drag conveyors. Adjustable set points allow operators to establish high and low speed thresholds to prevent equipment damage.

**Explosion-Proof Hall Effect Technology** – The 907 XP Hall Effect Shaft Speed Sensor offers non-contact magnetic sensing for precise pulse generation, even at very low or very high speeds. Class I, Group C & D, and Class II, Groups E, F & G ratings ensure safe operation in hazardous dust and gas environments.

**Split Collar Pulser Wrap** – The Standard Split Collar Pulser Wrap securely mounts to the rotating shaft without the need for drilling or machining. Its split design allows for quick installation and removal, reducing downtime and simplifying maintenance.

**Seamless Integration** – Electro-Sensors components are designed to work together. The DR1000 Speed Switch, 907 XP Hall Effect Sensor, and Split Collar Pulser Wrap integrate easily with each other and with KWS bulk material handling equipment for reliable monitoring and control.

### Benefits

**Equipment Protection** – The DR1000 automatically signals or shuts down equipment during under-speed, over-speed, or zero-speed conditions. This prevents costly failures, reduces risk of catastrophic breakdowns, and protects valuable machinery.

**Improved Safety** – The explosion-proof Hall Effect Sensor allows safe speed detection in hazardous environments where combustible dusts or vapors are present. This ensures compliance with industry safety standards and reduces the risk of accidents.



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# Features & Benefits

**Reduced Downtime** – The Split Collar Pulser Wrap allows for fast installation and removal without requiring shaft modifications. Quick maintenance translates to less downtime and greater productivity.

**High Accuracy & Reliability** – Non-contact sensing eliminates mechanical wear, providing precise, repeatable performance over the long term. This leads to consistent monitoring, fewer false alarms, and greater confidence in plant operations.

**Proven Compatibility** – When paired with KWS bulk material handling equipment, these Electro-Sensors components provide a robust speed monitoring system that ensures equipment runs at peak performance while protecting against unexpected shutdowns.



907XP Probe is Rated for Class I, Group C & D, and Class II, Groups E, F & G Environments



DR1000 Speed Switch is Mounted in NEMA 4X Enclosure with Adjustable Set Points



Split Collar Wrap Allows for Quick Installation Without Modification of Shaft



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