



ELECTRO-SENSORS

The original machine monitoring experts

Shaft Speed & Machine Monitoring Solutions For The Power Generation Industry

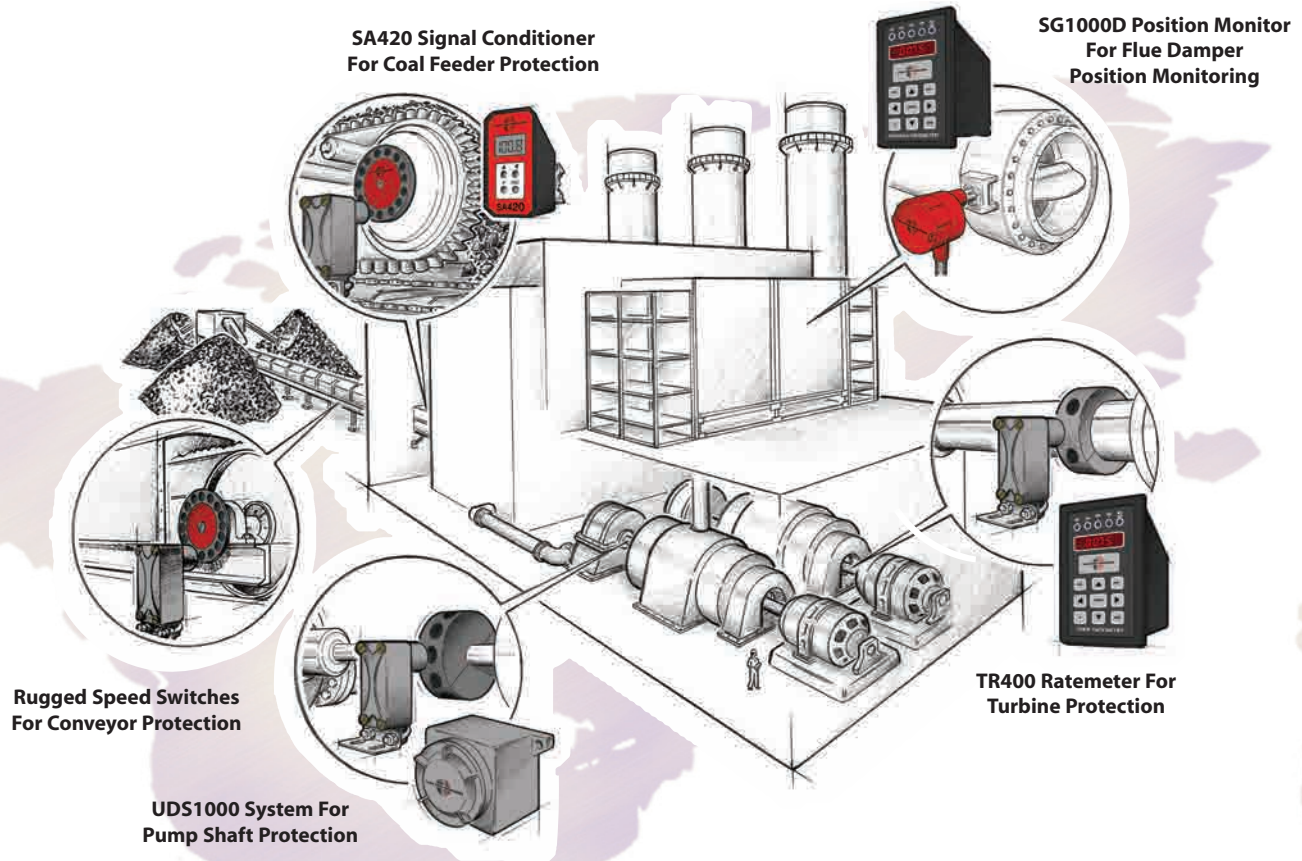
Proud to be ISO 9001:2000 Certified

www.electro-sensors.com

800-328-6170



ELECTRO-SENSORS protects your critical power plant processes every step of the way with a full range of shaft speed switches, sensors, rate meters and position monitors.



Our products are designed to safeguard all the critical processes in your power plant.

- Belt Conveyors
- Coal Feeders
- Coal Pulverizers
- Turbines
- Scrubbers
- Turbine Generator Turning Gear
- Excitation Generators
- Rotating Air Preheaters
- Clinker Grinders
- Boiler Feed-Water Pumps

Count on Electro-Sensors' products to work reliably year after year in harsh environments...where other products fail.

- Easy Installation and Setup
- Completely Field Programmable
- DC and AC Input Voltages Available
- Send Pulses to a PLC
- 5 Year Limited Warranty
- Sensors Immune From Electrical Noise
- Rugged and Reliable Systems
- Avoid Costly Process Downtime
- Maintain Operational Efficiency and Safety
- Sensors Operate in Coal Dust and Debris



Superior • Systems • Solutions

ISO 9001:2000

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Turbine Protection — TR400-6 Rate Meter

The **TR400-6** is a field programmable full logic control process rate meter that can accurately detect and convert 0.01 to 10,000 Hz signal input making it an inexpensive solution to turbine protection. With 6 relay outputs and a 4-20 mA analog output, the **TR400-6** is a complete process control and display system.

- Turbine Shaft Creep Speed
- Minimum Shaft Speed
- Synchronous Speed
- Monitor Excitation Generator Speed/Direction
- Shaft Runaway/Over-speed



SCR Damper Position Monitoring — SG1000D Position Monitor

The **SG1000D** Valve Position Monitor is a self-contained encoder-based position monitoring system, housed in a compact and rugged explosionproof NEMA 4X enclosure. It is straightforward to calibrate and provides a 4-20 mA output making it an ideal solution for Selective Catalytic Reduction (SCR) flue damper position monitoring.

- Accurate Damper Position Feedback
- 4-20mA Output Available
- Rugged Housing — Long Life and Dependability
- Non-Volatile Memory Retains Valve Position In The Event of a Power Loss
- Cost Effective Process Control
- UL, CSA & CE Approved to Applicable Standards



Coal & Ash Conveyor Monitors — Rugged Shaft Speed Switches

Electro-Sensors' range of **Rugged Shaft Speed Switches** are designed to operate in even the most extreme conditions and provide continuous coal conveyor protection. A wide range of options including single or multiple relay outputs, and explosion proof or NEMA 4X housings makes them the ideal choice as complete conveyor monitoring systems.

- Belt Breakage or Slippage
- Conveyor Slow Down or Stoppage
- Under-Speed or Over-Speed Relay Protection
- Explosionproof and NEMA 4X Housings Available



Coal Feeder Monitors — SA420 Speed to Analog Converter

The **SA420** is a field programmable signal conditioner providing an analog signal directly proportional to the speed of a rotating shaft, making it a great choice for monitoring volumetric coal feeders. The 0-10 Vdc and 4-20mA output signals can be sent to a display, PLC, chart recorder, loop controller, or drive speed controller.

- Protect Against Feeder Clogging
- Guard Against Machine Failure
- Precise Coal Feed Control to Furnace
- Maintain Operational Efficiency



Boiler Feed-water Pump Protection — UDS1000 Reverse Rotation Detector

The **UDS1000** is a complete system designed to instantly detect pump shaft reversal, making it ideal for protecting boiler feed-water pumps. If the pump shaft turns in reverse, or rotates in the wrong direction, the **UDS1000** locks out the starting circuit preventing the pump from starting during a reverse rotation event and causing catastrophic damage to the pump and/or transmission.

- Protect High Service Pump Shafts
- Avoid Costly Equipment Damage
- Rugged and Reliable system
- Easy Installation and Setup





The Original Machine Monitoring Experts

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ISO 9001:2000 Certified

Shaft Speed and Machine Monitoring Solutions For The Power Generation Industry



- Speed Switches, Sensors & Pulse Generators.
- Ratemeters, Tachometers & Counters.
- Signal Conditioners.
- Vibration Monitors & Tilt Switches.
- Position Monitors.
- Rugged, Reliable Systems.
- Easy Installation and Calibration.
- Safeguard Your Machinery.
- Improve Your Processes.
- Reduce Your Downtime.

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ES-305PG Rev B



Free Catalog and Application Assistance

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