

For providing pilot wire to ground short indication.

For Low and Medium Voltage Cables Up to 1000 Volts. Developed to comply with MSHA requirements, the tone monitor interrupts power to the mining machine if the ground wire is broken.



- The system ignores the parallel ground path effect. This being negated by means of the ground wire trap in series with the ground wire at the power center.
- For monitoring ground wires of continuous miners, cutting machines, shuttle cars, roof bolters and other mining equipment.
- Detects short circuit between pilot wire and ground wire.
- Simplified system — immune to voltage transients.
- More reliable than impedance type pilot wire systems.
- No interaction on multiple installations.
- Provides capability for remote power shutdown.
- Simplified installations, no phasing required.
- May be installed and tested with no power on the power cable.

Specifications

Mechanical:

Stainless Steel 7.46" H x 2.32"W x 5.62" D

Electrical:

- Power 117 V ac, 50/60 Hz ± 15% (105V to 135V)
- One plug-in PC board contains all electronics, including the relay
- Frequency 4000 Hz

Ordering Information

- Ground Sentinel® GM8000
- Pilot Wire Filter FI2560
- Pilot Wire Choke FI2558
- Ground Wire Trap GM1004

A Pilot Wire System includes a Ground Sentinel®, a Pilot Wire Filter, a Pilot Wire Choke, and a Ground Wire Trap.

