MineSafe™
Fiber Optic, 24/7 Miner Tracking System

MSHA-Approved fiber optic cable continuously tracks the location of up to 1,000 miners, 24 hours a day, 7 days a week.

Provides a real-time display of the location of all employees inside the mine on a customized map of your mine.

Features:
- Unaffected by EMI/RFI
- All-optical, no electrical power in cable
- Power-free, bi-directional emergency communications included
- Rapid easy installation using existing J-hooks, S-hooks, cable trays, or makeshift hangars
- Auto-reporting of cable break location
- When configured for redundant operation from both ends of the sensing cable – provides complete sensing on both sides up to any break
- Rugged MSHA-approved sensing cable and inherently safe breakout boxes
- Easy integration of sensing cable with mine lifeline cones
- High reliability for low lifetime cost

Updates miner location once per second, even in the presence of noisy operating equipment including continuous mining machines, roof bolters, etc.
System Specifications:

**Sensing:** 100% optical (no electrical power needed in the mine)

**Typical sensing zone length:** 100m

**# miners tracked:** Up to 1,000 simultaneously

**Miner Tracking:** Coded acoustic beacon, belt mounted, battery operated

**Beacon battery reserve:** 48 hours

**Display type:** GIS-based GUI

**Archived miner tracking:** tracking data files stored for 72 hours

**‘Lost’ GUI function:** alerts management when a miner is no longer tracked due to catastrophe

**# communications breakout boxes:** 8 per system

**Control room electronics power:** 110/220VAC

**Operational temperature range:** -40 to +50C