AUTOMATIC FIRE DETECTION AND SUPPRESSION SYSTEM

Fires in surface mining equipment present significant dangers to both people and property. The massive size of heavy earth moving machines (HEMM) contributes to this risk. Larger machines create more opportunities for fires to start and can impede operators from easily seeing potential fire threats. As mining equipment grows in size and complexity, relying on portable fire extinguishers is no longer sufficient to handle fire risks effectively. To address these dangers, we offer Automatic Fire Detection and Suppression Systems designed specifically for mining equipment.

These systems comply with the guidelines outlined in the Director General of Mines Safety (DGMS) Circular No. 6 of 2020. They are suitable for various types of heavy machinery, including dumpers, dozers, drill machines, shovels, and excavators. Our Automatic Fire Detection and Suppression Systems (AFDSS) provide customized solutions tailored to the unique needs of our clients. Their primary purpose is to enhance safety for both personnel and machinery in hazardous environments.

We offer both single-zone and two-zone systems based on the specific make and model of the mining equipment. This flexibility ensures that the fire suppression system is appropriately configured for various situations.

Epoch Instruments and Controls Pvt. Ltd. fire suppression systems are designed to protect predetermined hazardous areas around critical components. This includes coverage for the engine, hydraulic systems, and transmission systems where fires are most likely to occur. By taking into account the harsh conditions in which mining equipment operates, our systems work effectively in environments prone to elevated temperatures and flames.

Implementing an automatic fire suppression system is crucial for safeguarding human lives and protecting valuable property and equipment from fire accidents. These systems are essential in creating a safer working environment in the mining industry.

Features :

- Detection of OVERHEAT / FIRE conditions
- Activation of a loud audio alarm
- Activation of Extinguishing System
- Activation of Solenoid Valve on pressurized Pilot Cylinders leading to release of pressurized Nitrogen into DCP Cylinders
- Manual Override facility
- Built in Test Equipment
- Prop

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