

Mine Underground Signalling Lights



In underground mining, reliable visual signals can make the difference between safe, well-coordinated operations or alerting workers to a potentially dangerous situation, by helping them identify equipment status, recognise hazards and locate emergency refuge areas quickly.

Special enclosures PLROB Robot Indicators and Refuge Bay Boxes, provide practical signalling solutions designed for demanding mining environments.

The PLROB Robot Indicators use high-brightness red and green LED lights, with voltage options of 24, 32, 48, 110 and 220 V AC/DC. Their encapsulated LED circuit boards, polycarbonate lenses and glass-fibre-reinforced polyester bases provide IP68 protection against water and harsh conditions. Their low current draw also supports energy-efficient operation. After installing the unit at an underground mining intersection, red and green indicators can help communicate a robot's operating status, assisting workers in recognising conditions before approaching equipment.

Whereas Refuge Bay Boxes provide another type of critical safety function. During an underground power outage, flashing red lights reflecting off tunnel walls can help miners identify a refuge bay quickly. Under mains power, the unit flashes green. If the supply fails, four synchronised LED lamps flash red and an audible alarm activates. The alarm can be silenced using the enclosure's push button. A long-life lithium phosphate battery provides more than 12 hours of standby operation.

With robust stainless steel enclosure construction and dependable signalling, these boxes support a safer and more visible underground operation.

Contact us for more information on special mining enclosures and custom-built units.

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