

Booyco Electronics, South African pioneer of Proximity Detection Systems

Booyco Electronics, South African pioneer of Proximity Detection Systems, offers safety solutions for underground and surface mining, quarrying, construction, forestry and materials handling. Underpinned by years of experience, substantial support infrastructure and its continued focus on technology development in proximity detection and collision avoidance, the company offers a range of flexible solutions – including its own hardware and software – that it can customise to your specific requirements.

Booyco Electronics has been among the leaders in the use of Very Low Frequency (VLF) technology in the underground mining environment. This technology allows signals to be transmitted through rock walls, to allow vital communication between sensors on pedestrians and TMMs. This ensures that the pedestrian will still be warned of an approaching vehicle, even if it is out of sight around a corner. The company has extensive experience in developing safety solutions, using Radio Frequency (RF) and Global Positioning System (GPS) technologies for surface applications.

The Booyco PDS can detect as many as seven TMMs and 20 pedestrians within one scenario, in the underground environment. Its market leading systems are intrinsically safe, working on a clean 12 Volt power supply that will not ignite methane gas or coal dust, rather than deploying multiple Explosion Proof Enclosures.

Its latest Booyco CXS solution is a comprehensive and integrated response to Level 7, Level 8 and Level 9 safety levels for both people and vehicle detection – as defined by the Earth Moving Equipment Safety Round Table (EMESRT) and adopted by the Minerals Council of South Africa. The CXS solution interfaces to OEM equipment via the ISO 21815 standard.

The **Booyco Electronics** Asset Management System (BEAMS) is a Software Suite deployed at all customers to report on various requirements. BEAMS can integrate with a lamp room management system, or similar surface allocation and management system.



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