

Protecting Your People and Equipment - Reliably



Booyco Electronics is a South African-based Original Equipment Manufacturer (OEM) of mine safety equipment. With a strong reputation for producing reliable, quality equipment that ensures your team gets home safely, our primary focus is Proximity Detection Systems (PDS) and Collision Prevention Systems (CPS), that offer vehicle-to-vehicle as well as vehicle-to-pedestrian detection.

With mine safety legislation getting progressively tighter we continue to ensure compliance with our South African proximity detection and collision prevention systems. We are geared to meet Level 7, Level 8 and Level 9 requirements.

Established in 2006, we have supplied over 6 500 sets of mining vehicle equipment installations across southern Africa, as well as more than 55 000 pedestrian RFID installations.

Our focused approach to providing innovative safety-related products assists our customer base in meeting their safety targets and increasing productivity.

Underpinned by our sound engineering and manufacturing expertise, all products are assembled by competent technicians at Booyco Electronics' facility in Jet Park, outside Johannesburg and close to OR Tambo International Airport.

Our primary objective is to provide a single source supply for reliable and accurate warning, locating and monitoring systems capable of operating in the harsh African mining conditions. This includes Proximity Detection Systems as well as Collision Prevention Systems (CPS).

We are geared for Level 9.



- ✓ Level 7
- ✓ Level 8
- ✓ Level 9



B-BBEE – Level 3
Black Female Ownership



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Comprehensive integrated solution for vehicles and pedestrians geared for Level 9.



Booyco Electronics CXS Collision Prevention System

This best-of-breed system consolidates all that we have learnt from our legacy technology, and upgrades it into a new hardware platform. The hardware revamp allows for software updates to be conducted remotely and more frequently, so we can quickly provide increased functionality.

The Booyco CXS solution is a comprehensive and integrated response to Level 7, Level 8 and Level 9 safety levels – as defined by the Earth Moving Equipment Safety Round Table (EMESRT).

Based on previous principles proven by Booyco Electronics over many years, this hardware platform uses the reliable and accurate Very Low Frequency (VLF) technology for pedestrian detection. For surface applications, it uses GPS and radio frequency technology.

The heart of the system is the Booyco Host Unit (BHU). It receives information from the pedestrian sensors, the trackless mining machine (TMM) sensors and the wheeled mobile equipment sensors, and then conducts the necessary proximity calculations to alert users to any impending danger.

The BHU also integrates seamlessly with original equipment manufacturer (OEM) systems, either directly or through a third-party interface in accordance with ISO 21815. This allows the Booyco CXS to apply Level 9 intervention instructions to the machine, automatically slowing it down or bringing it to a complete stop.

Our flexible, comprehensive approach with the Booyco CXS has been to ensure that all customers can achieve Level 9 compliance, irrespective of the age of their machines. This applies to modern, intelligent TMMs that are CAN-BUS driven, as well as older units which require a mechanical interface.

While Booyco Electronics serves mainly the mining sector, the flexibility of the Booyco CXS makes it highly customisable for a wide range of applications and industries. The system can be applied to hundreds of different types of equipment, and programmed to serve specific customer requirements.

Booyco Electronics Asset Management System (BEAMS) Software Suite

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Report : Interaction, Logic Stops (Single Vehicle)

Report details

Name	Report Code	Active
Interaction, Logic Stops (Single V	INTERACTION_LOGIC_STOPS	Yes

Report parameters

Device * FACE01 Start Date * 06-09-2019 End Date * 06-09-2019

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Start Time	End Time	Duration	State Class	State Type	State Value	Upload Log
06-09-2019 08:47:06	06-09-2019 08:47:06	00:00:00.340	Logic	Stop	Enter	160
06-09-2019 08:47:08	06-09-2019 08:47:08	00:00:00.340	Logic	Stop	Enter	160
06-09-2019 08:47:10	06-09-2019 08:47:10	00:00:00.330	Logic	Stop	Enter	160
06-09-2019 08:48:00	06-09-2019 08:48:02	00:00:02.330	Logic	Stop	Enter	160

BEAMS is a web-based application used on a robust database, linking the proximity detection hardware products and the monitoring devices. It is essentially a central information hub, providing a single source of information that can be leveraged for greater insight into all aspects of your operation.

BEAMS allows the data from the Booyco CWS, Booyco PDS or Booyco CXS to be analysed for patterns which indicate unsafe behaviour. Customers can then design an appropriate intervention to prevent any further occurrences.

