



# SMARTDETECT CONTROLLER

- V2X Support
- Rugged Aluminum Casing (IP65)
- Operator-Friendly Interface

## FEATURES

All mines recognize the need for a reliable, robust and low maintenance Collision Avoidance System to enhance safety and production. The Becker Mining Systems smartdetect system is designed to prevent injury and damage during the operation of mining vehicles in close proximity to other equipment.

This system provides an early warning indication that alerts the operator to the presence and number of smartdetect-enabled vehicles and transponders in the vicinity.

The controller gathers data and other information from the various onboard sensors to create a real-time map of the vehicle and other smartdetect-enabled vehicles. The controller can determine the projected course of other vehicles and provide awareness via the visual and audible cues if there is a risk of collision.

Equipped with various components, the controller serves as the brains of the operation. It centralizes the data from all peripheral devices with its embedded I/O interfaces, processes it and projects it onto a user-friendly graphical interface.

## TECHNICAL DATA

PERFORMANCE SPECIFICATIONS	
Voltage	12 - 24V
Absolute Max Current	5A Controller 10A POE 1.5A LCD
Radio	Freq: 5.85 - 5.925 GHz Transmit Power: 20 dBm max
Integrated POE Switch	IEEE 802.3 af/802.3 at, 60 watts total power, 4-port unmanaged 10/100 switch

MECHANICAL DATA	
Enclosure	Aluminum
Dimensions (L x H x W)	230 x 120 x 200 mm (9.06 4.72 x 7.87 x in)
Weight (nominal)	4 kgs (8.8 lbs)
Connections	HDMI, Ethernet (POE), USB RS-232/422/485, CAN
Operating Temperature	-20° C ~ 60° C (-4° F ~ 140° F)

ENVIRONMENTAL DATA	
Protection Class	IP65

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

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