SMARTDETECT 2D LIDAR SENSOR

- Measures up to 50m Range
- Compact Design for Easy Installation
- Ethernet Interface for Real-Time Measurement Data
- High-Performance in Extreme Weather

smartdetect®

FEATURES

All mines recognize the need for a reliable, robust and low maintenance Collision Avoidance System to enhance safety and production. Becker Varis' smartdetect system is designed to prevent injury and damage during the operation of mining vehicles in close proximity to mining personnel and other equipment. This system provides an early warning indication that alerts the operator to the presence and number of vehicles in the vicinity.

Connected to the Controller and projected onto the LCD Touch Interface, the LiDAR Sensor measures distances by illuminating the target area with an infrared sensor. The recorded data is then extrapolated and represented into a two-dimensional visual.

Vehicle operators benefit greatly from the smartdetect LiDAR sensor as it maps physical features from the surrounding environment, adding a layer of visibility and depth to surrounding structures.

TECHNICAL DATA

PERFORMANCE SPECIFICATIONS	
Input Voltage	10.8 - 30VDC
Power Consumption	8 - 35W
Scanning Range	18 - 50m
Scanning Frequency	25 - 50Hz
Light Source	Infrared (905 nm)

MECHANICAL DATA	
Interfaces	TCP/IP, RS-232, CAN, Digital I/O
Dimensions (L x H x W)	105 x 162 x 102 mm (4.13 x 6.38 x 4.02 in)
Weight (nominal)	1.1 kg (2.43 lbs)
Connections	5-pin M12 Round Connector

ENVIRONMENTAL DATA	
Temperature Range	-30 to + 70° C (-22 to +158° F)
Protection Class	IP67

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MINING SYSTEMS®

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VARIS SMART MINING SOLUTIONS