

MIRA LEVEL CROSSING DETECTION

SIGNALING



Progress Rail's modern MIRA system monitors level crossings to ensure safe operation, while significantly reduces the risk of accidents occurring. Thanks to our state-of-the-art technology, trucks, cars and other critical objects both in the danger zone and in the approaching area are recorded and reported. MIRA incorporates proven technology from previous versions, as well as the latest innovations and customer requirements to ensure safe rail transport. Not only does MIRA use required 76 GHz microwave technology, it also complies with the highest CENELEC level of approval. Its design is based on SIL-4 architecture, with options for local modifications and enhancements. The flexibility of its use in field of sensor technology was taken into particular consideration at the developmental stage.

Progress Rail
A Caterpillar Company

800-476-8769

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MIRA LEVEL CROSSING DETECTION

- SIL-4 for CENELEC
- Flexible interface for level-crossing integration
- Intrusion detection
- Video surveillance (CCTV)
- Intelligent diagnosis
- Easy configuration
- Heating System

CONTROL LOGIC: TECHNICAL DATA

Features	Value
Supply Voltage (V in)	110-230 Vac
Frequemcy	50 Hz +/- 2%
Consumption	< 100 VA
Variation of Supply Voltage	70% V DC in 100 ms 40% V DC in 10 ms
Number of Output Channels	6 outputs fail-safe 3% Max, 0.05A 1 output as Relay 9NO/NC Selectable
Number of Input Channels	6 neutral safety relay contact

SENSORS: TECHNICAL DETAILS

Features	Value
Supply Voltage	24 V DC +/- 5%
Communication Channel	Ethernet e rs485
Output Power	10 mW
Antenna Gain	25 dBm
Frequency Band	1 GHz
Resolution	0.15 m
Max Distance	40 m
Opening Angle	25 degrees horizontal, 6 degrees vertical

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