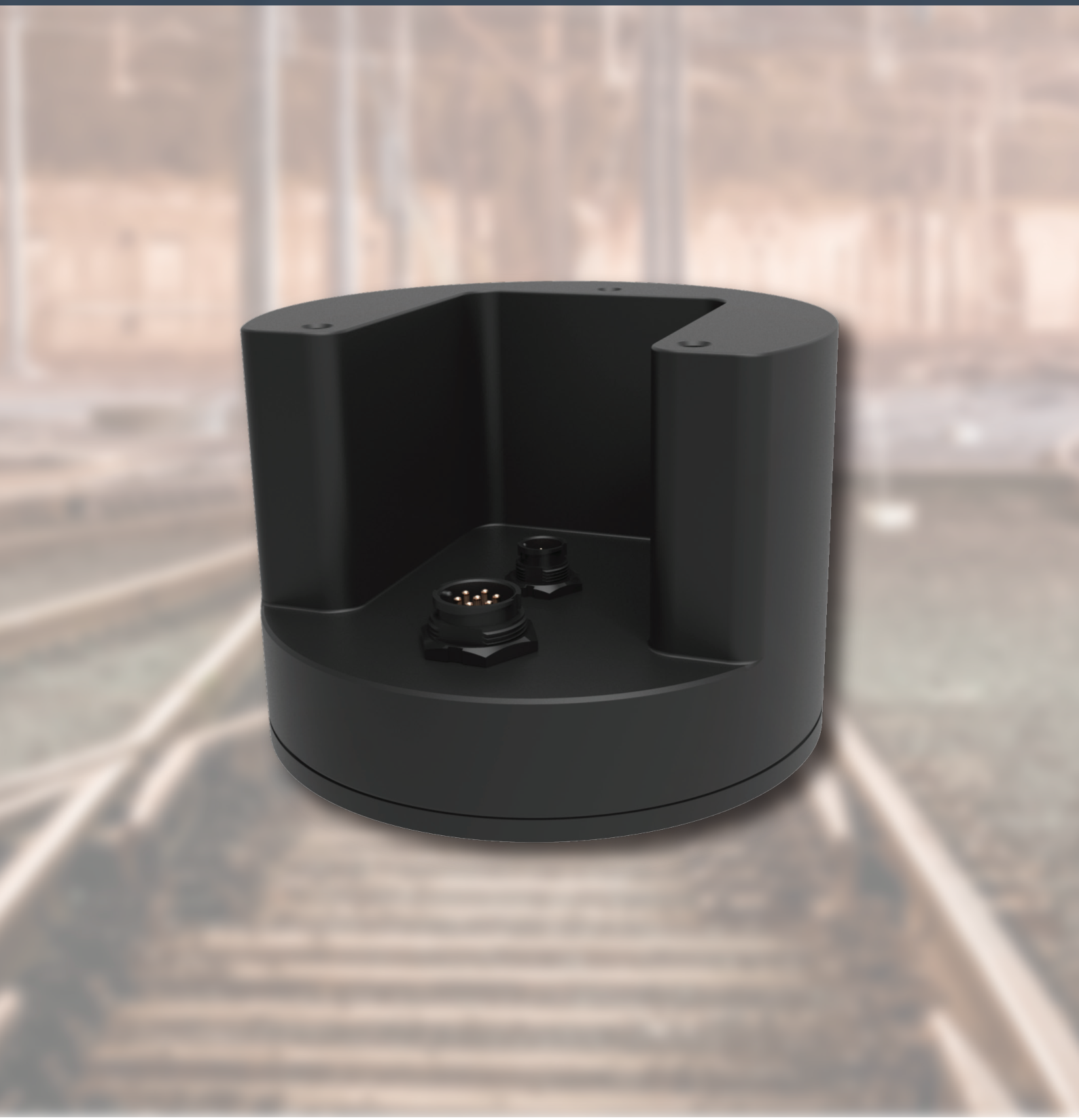
MagSense
Track Magnet Detector



Reliable Track Magnet Detection

MRD's MagSense track magnet receiver has been designed for maximum reliability in order to detect track magnets used in Station Protection, Automatic Power Control and Automatic Warning Systems.

MagSense
Track Magnet Detector

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Reliable Track Magnet Detection

Information

MRD's MagSense track magnet receiver has been designed for maximum reliability in order to detect track magnets used in Station Protection, Automatic Power Control and Automatic Warning Systems. The detector's operation is easily configured and calibrated to latch at the specified field strengths using the provided calibration software. There is no need to open the enclosure to adjust pots. The mode of operation can also be customised to suit specific customer requirements.

Features

Robust industrial design to suit harsh environments
Circuitry encapsulated in polyurethane potting compound
Vibration and moisture resistant
Plug connections for easy installation and maintenance
Programmable trip point from 1 - 35 Gauss
Retrofit option available
EN50155 / IEC 61373 compliant

Benefits

Reduced vehicle unavailability and lower maintenance costs
Overhaul requirements are reduced with maintenance limited to functional testing only

Part Numbers

MagSense Retrofit with Cannon Connector	MagSense-RC
MagSense Retrofit with Marachel Connector	MagSense-RM
MagSense New with Cannon Connector	MagSense-C
MagSense New with Marachel Connector	MagSense-M

Technical Specifications

General Data

Casing	IP67 Protection, Anodised Aluminium Enclosure
Dimension (W x H x D)	157mm x 157mm x 113mm
Weight	3kg
Operating Temperature	-25 to 55°C (EN50155)
Storage Temperature	-40 to 85°C
Ambient Relative Humidity	5 to 95% (non-condensing)

Power Circuit

Input	50 to 150V DC
Consumption	10W

Input Circuit

Reset Impedence	90 KΩ
Reset Voltage	45 to 150V DC

Output Circuit

Voltage	Within 5% of supply voltage
Maximum current	80mA

Sensitivty/Threshold

North Preset	22.5 ± 2.5 Gauss
South Preset	17.5 ± 2.5 Gauss

Approvals & Compliances

Transient and Surge Testing	EN50155
Vibration and Shock	EN61373
EMC	EN50121-3-2
MTBF	On request