

The Logical Solution for...Rail Systems

TAG DESCRIPTION

The Tracklink III® Tag is a beam powered RFID device used in the UHF radio frequency band. It is constructed from flame retardant, toughened polymer with an aluminium base and is factory sealed. It is designed for all types of harsh environments and is ideal for mounting on infrastructure assets or rolling stock.

The Tracklink III® Tag can be factory programmed, as required by the customer, or it can be user programmed in the field using the Tracklink III® programmer. The programmer gives the User the flexibility to hold a limited amount of spares to cover the Tag installed base.

The Tracklink III® Tag is beam powered, which means that the RF field generated by the Tracklink III® reader energises the Tracklink III® Tag circuit so that no internal battery is required.

The Tracklink III® Tag contains a circuit and antenna which is activated by the Beam of the Tracklink III® reader antenna. The Tracklink III® Tag transmits and reflects an encoded signal back to the Reader which decodes the signal for application specific functions.

Typical utilisation is for train and vehicle location schemes and train door selective opening systems. An example application of information contained on the Tracklink III® Tag as is used on London Underground Metropolitan, Circle, District and Hammersmith & City lines:

- Station Location Code
- Platform number
- Selective Door Opening (SDO) pattern
- Correct Side Door Enable (CSDE)
- Regen Area
- Tunnel Indicator
- Performance area

FEATURES

- Rugged construction suitable for harsh environments
- Factory or field programmable
- IP 67 sealed
- 16 Bit Cyclic Redundancy check
- No battery



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Tracklink III® HSD2300/041 Technical Specifications

Power supply:	None. Beam powered
Ingress protection:	IP67
Frequency:	865.7 to 867.9MHz (Europe) or 918 to 926 MHz (Australia)
Polarization:	Parallel with the length
Read Speed:	70+ mph dependant on type of Tracklink III® antenna used
Operating temperature:	-25°C to 85°C
Typical operating range:	Approximately 1metre, dependant on type of Tracklink III® antenna used (600 mm optimum)
Dimensions:	260 x 47.5 x 26.6mm
Weight:	250 g
Material:	Crastin® T850 flame retardant, toughened polybutylene terephthalate with aluminium base, oil and chemical resistant
Colour:	RAL 1023 Traffic Yellow
Available user data:	adjustable from 8 bytes up to 56 bytes (448 user configurable bits)
Security:	16 bit Cyclic Redundancy Check
Mounting Surface:	Any flat surface
Mounting method:	Can be glued or fixed with screws/bolts using the two 7mm diameter holes
Type Test Certifications:	BS EN 60068-2-1:200 -cold test, BS EN 60068-2-2:2007 - dry heat test, BS EN 61373, Category 1 Class B – random vibration , shock and simulated long life testing. BS EN 50121-3-2:2006 - Electrostatic Discharge



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