

TRACKLINK® III – Track to Train Communication

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**



www.sellacontrols.com

TRACKLINK® III – Track to Train Communication

Tracklink® III HSD2300/041 Tag 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
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® flame retardant, polybutylene terephthalate with aluminium base, oil and chemical resistant
Colour:	RAL 1023 Traffic Yellow
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



HSD2300/041 Tracklink® III Tag

This data sheet is provided for general information only.

SELLA CONTROLS

Carrington Field Street, Stockport, Cheshire SK1 3JN United Kingdom
T: +44 (0)161 429 4500 • F: +44 (0)161 476 3095 • E: sales@sellacontrols.com
www.sellacontrols.com