



IDentity Headlamp Mount Tag, Non-Transferrable

Ultra High Frequency 865 - 928 MHz
Global Passive Transponder

Overview

The IDentity Non-Transferrable Headlamp Mount Tag is a high performance radio frequency (RF) transponder designed to be used in conjunction with Sirit's IDentity 5000 series reader systems for automatic vehicle identification applications.

Developed for use directly on a motorcycle or vehicle headlamp, each transponder is capable of read/write functionality, contains a unique identification code, and is powered by utilizing energy from the reader, eliminating the requirement for a battery. The Headlamp transponder has a compact form factor and offers unique components and construction providing removal security.

The IDentity series tag and reader solution is ideally suited for a number of global transportation applications including Electronic Vehicle Registration (EVR), vehicle emissions testing, proof of insurance compliance and electronic tolling. By eliminating the manual, visual-based inspection associated with current systems the Sirit solution enables system operators to securely identify vehicles with appropriate authorizations from a distance, while the vehicle is in motion.

Security & Authentication

Sirit's "Secure Reader" and "Secure Tag" technologies offer multiple levels of security and authentication options. These options provide both "break on remove" and physical authentication techniques for the transponder. In addition, Sirit provides "RF" security features that verify the authenticity of a transponder during communications with the reader and provide security of sensitive information that may be stored on the tag.

These security and authentication features have been successfully tested at vehicle speeds up to 140 MPH (225 KPH).

Identity Headlamp Mount Tag

865 - 928 MHz Global, Passive Transponders



Performance Characteristics

Operating Frequency:	902 - 928 MHz Americas, 4 W EIRP 869.4 - 869.56 MHz Europe, 0.5 W ERP 865.6 - 867.6 MHz Europe, 2 W ERP
Supported Protocol:	ISO 18000-6C
Data Transfer Rate:	Up to 640 kbps

Physical Characteristics

Dimensions (LxW):	Label - 96.8375 x 12.7 mm (3.8125 x 0.5 in.) Inlay - 92.9 x 8.0 mm (3.66 x 0.315 in.)
Weight:	1.2 g (0.04 oz)

Environment

ESD Voltage Immunity:	+/- 3kV
Operating Temperature:	-40°C to +85°C (-40°F to 185°F)
Storage Temperature:	-40°C to +100°C (-40°F to 212°F)
Relative Humidity:	100% condensing

Tag Memory & Security

Tag Part Numbers	ID-HMT-NT-L1S	ID-HMT-NT-L3S
On-Chip Memory:	752 bits	800 bits
Tag Identifier:	64 bits	64 bits
Access password:	32 bits	32 bits
Kill password:	32 bits	32 bits
EEPROM data retention:	10 years	10 years
EEPROM write endurance:	10,000 cycles	10,000 cycles
Unique TID	Yes	Yes
Password Authentication	Yes	Yes
Read Lockable Memory	No	Yes



Identity Headlamp Mount Tag

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About Sirit

Sirit Inc. (TSX: SI) is a leading provider of Radio Frequency Identification (RFID) reader technology to OEMs and solution providers worldwide. Harnessing the power of Sirit's enabling-RFID technology, customers are able to more rapidly bring high quality RFID solutions to the market with reduced initial engineering costs. Sirit's products are built on more than 16 years of RF domain expertise addressing multiple frequencies (LF/HF/UHF), multiple protocols and are compliant with global standards. Sirit's broad portfolio of products and capabilities are easily customized to address new and traditional RFID market applications including Supply Chain & Logistics, Cashless Payment, Access Control, Automatic Vehicle Identification, Inventory Control & Management, Asset Tracking and Product Authentication. For more information, visit www.sirit.com.

RFID by Sirit The "RFID by Sirit" symbol signifies that Sirit Inc.'s high quality RFID reader technology resides within this product.

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