



IDentity FleX Transponder

Ultra High Frequency 916.25 MHz
Transponder for Automatic Vehicle Identification

FEATURES

- User replaceable battery
4 year battery design-life using single cell or 8 year battery design-life using optional dual cell
- Factory programmed
Transponder information can be set to customer's specification including unique facility code and ID number
- Choice of attachment method
Available with either Velcro™ or double-sided tape
- Two tag formats available
Select either internal windshield mount or external mounted license plate transponder

Overview

The IDentity FleX transponder is a small radio frequency (RF) device designed for Sirit's Automatic Vehicle Identification system. Each transponder contains a factory programmed, unique 64-bit identification code. For flexibility, there are two form factors of this transponder - a small, interior mounted windshield tag and a ruggedized exterior mounted license plate tag. The IDentity FleX windshield transponder comes equipped with a standard user replaceable 4-year coin cell battery. Where longer life is required, an additional battery can be added. If security is of primary concern, the IDentity S-FleX transponder provides a unique tamper-resistant "Break-on-Removal" feature that deactivates the transponder once removed from the windshield. By using either version of the IDentity FleX transponder, tedious lineups and delays can be substantially reduced.

How It Works

Sirit's IDentity FleX transponder uses RF backscatter modulation technology to respond to signals emitted by an IDentity FleX reader by reflecting and modulating the reader's RF signal. As a vehicle approaches the read zone, the presence of an RF field "wakes" the transponder. Once activated, the transponder returns a pre-programmed code to the reader system through the IDentity FleX antenna.



The IDentity FleX transponder's wireless link uses comprehensive error detection methods to ensure a 99.9% accuracy rate even under the most adverse environmental conditions. Error detection and correction also ensures information is transferred accurately between the transponder and reader. This read range can be configured by the IDentity FleX reader to a maximum distance of 25 feet.



IDentity FleX Transponder

916.25 MHz Windshield or License Plate Tag



| Performance Characteristics | |
|-----------------------------|--|
| Operating Frequency: | UHF band, 916.25 MHz |
| Working Range: | Set by reader up to 7.7 m (25 ft.) |
| Data Rates: | Net data rates up to 1,000 kbps Manchester encoded data rate of 300 kbps |
| Data Storage: | 64-bit |
| Physical Characteristics | |
| Dimensions (LxWxD): | Windshield Tag: 10.5 x 6.7 x 1.0 cm (4.12 x 2.62 x 0.39 in.) License Plate Tag: 20.9 x 4.3 x 2.8 cm (8.25 x 1.68 x 1.10 in.) |
| Weight: | FleX Tag - Standard: 43.4 g (1.52 oz.) FleX Tag - Break on Removal (BOR): 45.4 g (1.60 oz.) License Plate Tag: 125.6 g (4.43 oz.) |
| Environment | |
| Operating Temperature: | -25°C to +85°C (-13°F to 185°F) |
| Storage Temperature: | -40°C to +114°C (-40°F to 237°F) |
| Relative Humidity: | 85% non-condensing @ 85°C |
| Power: | Internal, 3 Volt, lithium battery, CR2032 |
| Battery Life: | Standard FleX Tag: Single user-replaceable battery, 4 year battery design-life Tamper resistant/BOR FleX Tag: Two user-replaceable batteries, 8 year battery design-life License Plate Tag: Non-replaceable battery, up to 8 year battery design-life |
| Case Material: | Polycarbonate welded and weather resistant plastics |
| Ordering Information | |
| Part Number: | Description: |
| IDFLEX-TAG-4 | IDentity FleX Windshield Transponder with Velcro™ |
| IDFLEX-TAG-4BOR | IDentity S-FleX Windshield Transponder with double-sided tape (tamper-resistant/deactivates upon removal) |
| IDFLEX-TAG-4LP | External License Plate Transponder |
| IDFLEX-VELCRO | Velcro™ strip with adhesive |
| IDFLEX-BAT-CLIP | Additional 4 year battery with adapter clip |
| IDFLEX-TS-TAPE | Double-sided adhesive tape |
| IDFLEX-BAT-CCL3V | Coin cell 3 V lithium battery |
| IDFLEX-BOR-REACT | IDentity S-FleX reactivation charge including new tape and two batteries |
| Models: |  <p>IDentity FleX Windshield Transponder/Tag</p>  <p>IDentity FleX License Plate Transponder/Tag</p> |

SIRIT - CANADA
372 Bay Street, Suite 1100
Toronto, ON M5H 2W9 Canada
Tel: 416.367.1897
Fax: 416.367.1435

SIRIT - USA
1321 Valwood Parkway, Suite 620
Carrollton, Texas 75006 USA
Tel: 972.243.7208
Fax: 972.243.8034

For more information,
contact sales toll free
at 1.800.498.8760

E-mail: pacs@sirit.com

www.sirit.com

About Sirit Inc.

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 13 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.



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

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