ID*entity* MaX Transponders

Ultra High Frequency 865 - 960 MHz
Transponders for Automatic Vehicle Identification

FEATURES

- Passive operation
  Transponder is powered by
  the integrated reader/antenna
  device

- Ideal for wide range of
  applications
  - Commercial Parking
  - Gated communities
  - University campuses
  - Hospitals and many more

- Worldwide compliant tags
  available in a variety of form
  factors.

Overview

ID*entity* MaX transponders are small radio frequency (RF) tags designed for Sirit's Automatic Vehicle Identification systems. Each transponder contains a unique identification code and utilizes energy from the IDentity Max Pro reader for power, eliminating the requirement for a battery. Transponders are available in either a non-transferrable windshield mount or a credit card form factor for sidefire installations. Both form factors provide convenient access control by eliminating tedious lineups and delays associated with manual systems.

How It Works

Sirit's ID*entity* MaX transponders use RF backscatter modulation technology to respond to signals emitted by an ID*entity* MaX Pro reader by reflecting and modulating the reader's RF signal. As a transponder approaches the read zone, the presence of an RF field "wakes" the transponder. Once activated, the transponder returns a pre-programmed code to the ID*entity* MaX Pro reader.
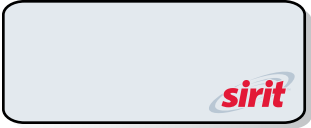
The ID*entity* MaX Pro transponder's wireless link uses comprehensive error detection methods to ensure a high accuracy rate even under the most adverse environmental conditions. Error detection and correction also ensures information is transferred accurately between the transponder and reader.

ID*entity* MaX Transponders
865 - 960 MHz Global, Passive Transponders

vision beyond sight™

Performance Characteristics	
Operating Frequency:	865 MHz to 960 MHz
Working Range:	Determined by Max Pro reader configuration;
	MaX Non Transferrable Windshield Transponder Up to 4.5 m (15 ft);
	MaX Pass Credit Card Transponder Up to 3 m (10 ft)
Data Storage:	240 bit

Physical Characteristics	
Dimensions (LxW):	MaX Non Transferrable Windshield Transponder 25.4mm x 67.31mm (2.65 in x 1.0 in.)
	MaX Pass Card Transponder 85.72mm x 53.97 mm (3.375 x 2.125 in.)
Weight	MaX Non Transferrable Windshield Transponder 1.2g (0.04 oz.)
	MaX Pass Card Transponder 6 g (0.2 oz.)

Environment	
MaX Non Transferrable Windshield Transponder	
Operating Temperature:	-40°C to +85°C (-40°F to 185°F)
Storage Temperature:	-55°C to +125°C (-67°F to 257°F)
MaX Pass Card Transponder	
Operating Temperature:	-40°C to +85°C (-40°F to 185°F)
Storage Temperature:	-55°C to +85°C (-67°F to 185°F)
Relative Humidity:	30% - 70% non-condensing
Power:	RF beam powered by Max Pro reader, no battery required

Ordering Information	
Part Number:	Description:
IDMAX-TAG-01	IDentity MaX Windshield Transponder (Non-Transferrable)
IDMAX-PASS	IDentity MaX Pass Card Transponder

IDentity MaX Pass Card Transponder

IDentity MaX Windshield Transponder (Non-Transferrable)

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 14 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.

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