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This RFID RTLS tag and marker is well suited for a variety of wireless applications including identification, tracking and localization of high value assets and personnel.

The high speed localization tag delivers instant identification as well as precise location of assets or personnel within 1m (3ft). It is equipped with marker technology for locating goods, and vehicles. The marker technology allows selective locating of a sensor in adjacent car tracks. The inductive marker field informs the sensor about its current location.

It transmits and receives data at distances of up to 250 m (800 feet). It also can be easily configured to beacon data at a configurable rate to a range of up to 500 m (1600 ft).

Equipped with LED, the tag provides visual recognition. The light is visible from almost every direction.

Key Features

- ✓ Up to 300m(1000ft) localization range
- ✓ UHF operating frequencies
- ✓ Spot location for gate applications
- ✓ Industrial housing
- ✓ Beacon communication mode
- ✓ Response communication mode
- ✓ LED
- ✓ Push button
- ✓ Extended battery lifetime

Applications

- ✓ Identification
- ✓ Tracking
- ✓ Localization of high value assets

Technical Specifications

Communication Broadcast	
Operation Mode	Transmits Sensor ID and user data in pre-defined interval
Read Range	up to 500 m
Compatibility	227002, 227003, 227004,
Operating Frequency	868 MHz (EU) or 920 MHz (NA)
Transmit Power	<1mW
Communication Response 350	
Operation Mode	Bi-directional communication (reading log, blink LED, write/read data)
Read Range	up to 250m
Compatibility	227002, 227003, 227004,
Operating Frequency	868 MHz (EU) or 920 MHz (NA)
Transmit Power	<1mW
Communication RTLS	
Operation Mode	Distance Measurement
Read Range	up to 300 m
Compatibility	27003, 227004, 217009
Operating Frequency	2.4 GHz
Transmit Power	<100 mW
Communication Marker	
Operation Mode	Receives Marker ID and transmits marker information several times via Broadcast 350 telegrams
Read Range	up to 5m
Compatibility	491013, 491014
Operating Frequency	125 kHz

Electrical	
Power Source	Lithium Battery (replaceable)
Battery Monitoring	Yes
Data	
Data Retention	> 10 years without power
Write Cycles	100,000 writes
Memory Size	10,000 Bytes user definable
Identification Code	48 bit fixed ID
Environmental Conditions	
Operating Temperature	-40 °C to +85 °C (–40 °F to +185 °F)
Shock	Multiple drops to concrete from 1m (3ft), 3 times DIN IEC 68-2-27
Humidity	10% to 95% relative humidity at 30°C
Vibrations	3G, 20 sine wave cycles, 5 to 150 Hz, DIN IEC 68-2-6 5G, noise 5 to 1.000 Hz, 30 minutes, DIN IEC 68-2-64
Configuration	
Device	227002, 227003, 227004,
Ping Rate	Configurable from 0.5 to 300 seconds insteps of 0.5 seconds
Number of Bursts	Configurable from 0 to 15
Broadcast User Data	Up to 50 Bytes
Standard/Certification	
Europe	CE (EN 300 220-1, -3; EN 301 489-1,-3; EN 60950)
North America	FCC Part 15 (US); Industry Canada
Mechanical Data	
Dimensions	137 x 37.5 x 26.5 mm (5.4 x 1.48 x 1.04 in.)
Enclosure	Plastic
Weight	50g (1.75 ounces)

Enclosure rating	IP 65

GAO Group

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