Active UHF Beacon Tag i-Q350L M-Microtag





This IDENTEC SOLUTIONS' tag is intended for tracking personnel in hazardous environments such as:

- chemical plants
- petrol or gas stocks
- oil rigs

It is an ideal tool for safety of personnel.

Using advanced UHF radio frequency technology, i-Q350L M tags send data at distances of up to 150 meters (500 feet) to either a mobile (handheld) or fixed reader (interrogator).

The marker technology allows control if someone moves in or out through a gate or another specific locations. Here the inductve marker field informs the transponder about the current location. In the same moment the transponder sends it location information several times to the reader. For this data transmission it uses its long range RFID abilities. Even after the transponder has left the marker field it transmits this data steadily at a configurable ping

Due to the ultra-low power consumption and configurable ping rate

(one second to 300 seconds), the i-Q350L M tag can effectively operate maintenance-free for many years.

The i-Q350L M tag is the most economical choice for basic long-range technology and is ideal for tracking personnel.

|--|

■ 150 m (500 ft) read range

Customizable ping rate

UHF operating frequencies

Non-line-of-sight data transmission

Automatic transmission

Cost-effective

Wearability

Benefits

Allows the longest read-range for identification and tracking using beacon technology.

To optimize battery consumption, dynamic appearance and RF band use.

Tags are available for both standard North American and European ISM band frequencies.

Allows tags to be identified without the need of visual contact.

Tags do not have to be "woken"—they transmit automatically.

Creates the economical conditions for the usage of active high performance RFID technology to track and trace objects.

Small form factor





IDENTEC SOLUTIONS

IDENTEC SOLUTIONS is the global leader in active wireless tracking solutions. A commitment to developing ground-breaking, industry-specific tracking solutions featuring proprietary patented technology has placed IDENTEC SOLUTIONS in the international forefront as a technology provider for innovation and as a complete solution provider in the automotive, oil, gas and mining industries.

Utilized by the world's leading organizations integrators, **IDENTEC** system SOLUTIONS' award-winning technology portfolio offers robust, highly effective tracking solutions that manage critical process and optimize supply chain flow. Privately held since 1999, IDENTEC SOLUTIONS provided has asset management solutions and support to a variety of organizations, including an impressive roster of Fortune 500 clients such as Volkswagen, Audi, Deutsche Post and General Electric. Headquartered in Lustenau, Austria, the company's North American headquarters are located in Dallas, Texas, with customer service centers in Hong Kong, Germany, Australia and Norway. For more information, please visit: www.identecsolutions.com.

Information in this document is subject to change without notice and becomes contractual only after written confirmation by IDENTEC SOLUTIONS.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:
(1) This device may not cause harmful interference,

(2) This device must accept any interference received, including interference that may cause undesired operation.

"IDENTEC SOLUTIONS", "Intelligent Long Range", "ILR", "I-LINKS", "I-Q", "I-D", I"-B", "I-CARD", "I-PORT", "Solutions. It's in our name.", "Smarten up your assets." and the stylized "I" are trademarks or registered trademarks of IDENTEC SOLUTIONS, Inc. and/or IDENTEC SOLUTIONS AG.

Copyright © 2010 by IDENTEC SOLUTIONS. All rights reserved.

Technical Data

Operating Data

Operating frequency ILR-RFID 868 MHz (EU) or 920 MHz (NA), further frequencies

on request

Maximum transmission power 0.75mW (EU / NA)

Compatibility i-PORT M 350, i-CARD CF-350

Standards/Certification FCC Part 15 (US), ETSI EN 300 220 (EU)

Communication Data Long-Range RFID (ILR, Response Technology)

Multiple tag handling Up to 2,000 tags in the read zone Read/write range response mode Up to 5 m (16 feet), free air*

Data rate response 19.2 to 115.2 kbits/s

Communication Data Long-Range RFID (ILR, Beacon Technology)

Read range broadcast

Operation mode

Repetition rate (ping rate)

Up to 150 m (500 feet) free air*

Transmits marker information in at regular intervals

0,5 – 300 seconds, adjustable in steps of 0,5 seconds

Data rate broadcast 115.2 kbits/s

* The communication range depends on the antenna type, the antenna cable runs and the environmental conditions.

Communication Data Inductive Loop (Marker)

Read range Up to several meters

Operating frequency 125 kHz (world-wide approved)

Operation mode Receives marker ID number and transmits marker

information several times

Electrical Data

Power supply Lithium battery

Configuration

Ping rate Configurable from 0.5 to 300 seconds

in steps of 0.5 seconds
Number of Bursts
Configurable from 0 to 15

Environmental Conditions

Operating temperature -30 to +70 °C (-22 to +158 °F)

Shock 50 G, 3 times acc. DIN IEC 68-2-27

several times onto concrete floor from 1 m height

Vibration 3 G, 20 sine wave cycles, 5 to 150 Hz,

DIN IEC 68-2-6

5 G, noise 5 to 1.000 Hz, 30 minutes

DIN IEC 68-2-64

Mechanical Data

Dimensions 56 mm \times 30 mm \times 14 mm

Casing Plastics
Mass 40 g
Protection class IP 65

Certifications

EMC CE (EN 300 220-1, -3; ETSI EN 301 489-1, -3),

FCC Part 15 (US), Industry Canada

WARNING:

Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment.



Distribuited by

SOFTWORK SrL Via Zanardelli, 13/A 25062 Concesio (BS) Italy Tel. +39 030 200 81 49 www.rfidglobal.it