IDENTEC SOLUTIONS

i-B350L W
BROADCAST SENSOR

RFID GLOBAL by SOFTWORK

IDENTEC SOLUTIONS' i-B350L W sensors are designed to be exceptionally flexible, easy to implement, and cost effective. For added value, the beacon sensors can be configured to transmit their unique ID information at predetermined broadcast intervals.

The IDENTEC SOLUTIONS' i-B350L W sensor was developed for applications such as personnel tracking in challenging environments such as; chemical plants, petrol or gas stocks, oil rigs, mines and tunnels.

Using advanced UHF radio frequency technology, the i-B350L W sensor transmits data to distances of up to 150 meters (500 feet) to either a portable (handheld) or fixed reader (interrogator).

For added control, the marker technology allows gate and other location movements to be registered. Here, the inductive marker field informs the sensor about the current location. In the same moment the sensor sends its location information several times to the reader. For this data transmission, the i-B350L W uses its long range RFID abilities. Even after the sensor has left the marker field it transmits this data steadily at a configurable ping rate.

Due to the ultra-low power consumption and configurable ping rate (one second to five minutes), the i-B350L W sensor can effectively operate maintenance-free for many years.

Excepcionally reliable, the i-B350L W is the ideal tool for tracking personnel. Value-driven, it provides remarkable basic long-range coverage to ensure personnal safety.

BENEFITS

- **150 m (500 ft) read range.**
  Allows the longest read-range for identification and tracking using beacon technology.

- **UHF operating frequencies.**
  Sensors are available for both standard North American and European frequencies.

- **Non-line-of-sight data transmission.**
  Allows sensors to be identified without the need of visual contact.

- **Automatic transmission.**
  Sensors do not have to be "woken" — they transmit automatically in a customiz able ping rate.

- **Spot location for Gate Applications.**
  Using Marker technology, gate data is transmited via RFID at a configurable ping rate.

- **Industrial housing.**
  Durable in the most demanding environments.

- **Wearability.**
  Sensors may be worn like a watch.

FEATURES

- 150 m (500 ft) read range
- UHF operating frequencies
- Non-line-of-sight data transmission
- Automatic transmission
- Spot location for Gate Applications
- Industrial housing
- Wearability

IDENTEC SOLUTIONS delivers innovative wireless sensor technology and systems that are helping transform the way businesses manage industrial processes and safeguard lives.

Committed to developing industry-leading, low power and long-range sensor based solutions, IDENTEC SOLUTIONS' SensorSMART networks have been setting the industry standard since 1999.

Currently deployed on every continent throughout the globe in the Ports & Terminals, Oil & Gas, Tunnel & Mining, and Government & Defense industries as well as sought out by the world's leading system integrators and governments; IDENTEC SOLUTIONS patented technology is helping to optimize productivity in some of the continent's most challenging situations. Robust, flexible and powerful IDENTEC SOLUTIONS technology delivers when others cannot.

IDENTEC SOLUTIONS is privately held, with its corporate office located in Lustenau, Austria, and North American headquarters in Dallas, Texas, along with service centers in Germany, Australia and Norway. For more information, please visit www.identecsolutions.com.

TECHNICAL SPECIFICATIONS

Communication Broadcast 350

Operation Mode	Transmits Sensor ID and user data in pre-defined interval
Read range	Up to 150 m (500 ft) in free air*
Compatibility	i-PORT M 350, i-CARD CF-350 and i-PORT 4-350
Operating Fequency	868 MHz (EU) or 920 (NA)
Transmit Power	<1mW

Communication Marker

Operation mode	Receives Marker ID number and transmits marker information several times via Broadcast 350 telegrams
Read range	Up to 5m
Compatibility	i-MARK
Operating Frequency	125 kHz (world-wide approved)

Data

Identification Code	48 bit fixed

Configuration

Device	i-PROG M350L
Ping rate	Configurable from 0.5 to 300 seconds in steps of 0.5 seconds
Number of Bursts	Configurable from 0 to 15
Broadcast User Data	Up to 50 Bytes

Electrical

Power source	Lithium Battery (non-replaceable)
Battery Monitoring	Yes

Environmental Conditions

Operating temperature	–20 to +70 °C (-4 °F to +158 °F)
Humidity	10% to 95% relative humidity @ 30°C
Shock	Multiple drops to concrete from 1m (3ft), 3 times DIN IEC 68-2-27
Vibrations	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

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	43 × 38.5 × 14.5 mm (1.7 × 1.5 × 0.57 inches)
Casing	Plastics
Enclosure Rating	IP 67
Weight	40 g

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