



IDENTEC SOLUTIONS' i-Q350X FL sensors are designed to be cost effective, easy to implement and offer maximum flexibility. Using advanced UHF radio frequency technology, i-Q350X FL sensors transmit and receive data at distances of up to 250 m (800 feet).

The i-Q350X FL sensors offer an attractive price for continuous monitoring and optimization of logistics in the supply chain.

The main applications are:

- Access control
- Tracking of Vehicles and Containers
- Online inventory
- Identification of assets or personnel at specific areas

Using advanced UHF radio frequency technology, i-Q350X FL sensors transmit and receive data at distances of up to 250 m (800 feet). In addition, they can be easily configured to beacon data at a rate range of up to 500 m (1600 ft).

With an integrated LED, the sensor supports visual recognition, such as, "pick by light" applications. The light is visible from almost every direction.

## BENEFITS

- **UHF operating frequencies.**  
Sensors are available for both standard North American and European frequencies.
- **Industrial housing.**  
Durable in the most demanding environments.
- **Beacon communication mode.**  
Automatically transmits data over a range of up to 500 m (1600 ft).
- **Response communication mode.**  
Data can be written/read from the sensor over a range of up to 250 m (800 ft).
- **LED.**  
Provides visual identification of an addressed sensor ("pick by light").
- **10,000 Bytes memory.**  
Stores user and process information as well as temperature data onto the sensor to provide real-time tracking. Can be used as an electronic packing slip or shop traveler.

## FEATURES

- UHF operating frequencies
- Non-line-of-sight data transmission
- Industrial housing
- Beacon communication mode
- Response communication mode
- LED
- 2000-simultaneous sensor identification
- Extended battery lifetime
- ATEX and IECEx certificates

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# i-Q350X FL SENSOR

**IDENTEC SOLUTIONS**  
delivers innovative wire-  
less sensor technology  
and systems that are  
helping transform the  
way businesses manag  
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](http://www.identecsolutions.com).

WARNING: Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment. Contents subject to change without notice.

## TECHNICAL SPECIFICATIONS

### Communication Broadcast 350

Operation Mode	Transmits Sensor ID and user data in pre-defined interval up to 500m (1600ft)*
Read Range	i-PORT M350, i-CARD CF 350 and i-PORT 4-350
Compatibility	868 MHz (EU) or 920 MHz (NA)
Operating Frequency	<1mW
Transmit Power	

### Communication Response 350

Operation Mode	Bi-directional communication (reading log, blink LED, write/read data)
Read Range	up to 250m (800ft)*
Compatibility	i-PORT M350 and i-CARD CF 350
Operating Frequency	868 MHz (EU) or 920 MHz (NA)
Transmit Power	<1mW

### Data

Data Retention	> 10 years without power
Write Cycles	100,000 writes
Memory Size	10,000 Bytes user defineable
Identification Code	48 bit fixed ID

### Configuration

Device	i-PORT M350 or i-CARD CF350
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	10% to 95% relative humidity @ 30°C
Humidity	Multiple drops to concrete from 1m (3ft), 3 times DIN IEC 68-2-27
Shock	3G, 20 sine wave cycles, 5 to 150 Hz, DIN IEC 68-2-6
Vibrations	5G, 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
ATEX/IECEx	ATEX Zone 0 (II 1 G Ex ia IIC T4)

### Mechanical Data

Dimensions	137 x 38 x 27 mm (5.4 x 1.48 x 1.04 inches)
Enclosure Material	Plastic
Enclosure Rating	IP 65
Weight	50 grams (1.75 ounces)

\*Communication range depends on the antenna type, the antenna cable runs and the environmental conditions.

## CONTACT US

**EUROPE**  
+43 5577 87387-0  
[sales@identecsolutions.com](mailto:sales@identecsolutions.com)

**NORTH AMERICA**  
+1 972 535-4144  
[sales@identecsolutions.com](mailto:sales@identecsolutions.com)

**HEAD OFFICE**  
IDENTEC SOLUTIONS AG  
Millennium Park 2  
6890 Lustenau  
Austria  
Tel. +43 5577 87387 0  
Fax +49 5577 87387 15

**GERMANY**  
IDENTEC SOLUTIONS  
DEUTSCHLAND GMBH  
AURUM 05 / Ost  
Goldbeckstraße 5  
69493 Hirschberg  
Germany  
Tel.: +49 (0)6201 9957-0  
Fax: +49 (0)6201 9957-99

**USA**  
IDENTEC SOLUTIONS, INC.  
Liberty Plaza II, Suite 375  
5057 Keller Springs Rd,  
Addison, Texas 75001  
USA  
Tel: (972) 535 4144  
Fax: (469) 424-0404

**NORWAY**  
IDENTEC SOLUTIONS AS  
Kartheia 3  
4626 Kristiansand  
Norway  
Tel. +47 38 00 35 30  
Fax +47 38 00 35 31

**AUSTRALIA**  
IDENTEC SOLUTIONS  
AUSTRALIA AND NEW  
ZEALAND P/L  
Riverview Business Park 72  
Maribyrnong St, Footscray,  
3011 Australia  
Tel. +61 3 9396 8900  
Fax +61 3 9689 2493