

R140 Badge Location Sensor

The R140 badge location sensor is specifically designed for tracking personnel and their interaction with tagged assets.

Features & Benefits

- ◆ Encoded Radio Transmissions at 433 MHz
- ◆ Designed for Tracking Personnel
- ◆ Clip to Clothing or Hang from a Lanyard
- ◆ Optional 2-Second Beacon Rate for Security Applications
- ◆ Low Power Consumption for Long Battery Life
- ◆ Superior Anti-Collision Technology for High Sensor Densities

The R140 Badge Location Sensor is a battery-powered RF transmitter that can be clipped onto an article of clothing or worn around the neck with a lanyard. Every sensor broadcasts its unique ID and a status message at a periodic rate (pre-programmed at time of manufacturing).

R140 Badge Sensors are specifically designed for tracking personnel and their interaction with tagged assets. When used with strategically-placed RF Code readers, badge sensor transmissions can be mapped in real-time to track

personnel movement, entrance and exit from selected work sites or controlled areas.

R140 badge sensors operate as security sensors, emitting their unique identification number once every two seconds to enable continuous monitoring. Sensor cases are impact-resistant, splash-resistant and temperature stable. Read ranges up to 1,000 feet can be obtained with optional antenna configurations. The standard sensor operates with a very low duty cycle that translates to long battery life (typically > 3 years at a 2-second beacon rate).



RF Code R140 Badge Location Sensor Specifications

OPERATION

Operating Frequency	433.92 MHz
Group Code & Sensor ID Codes	> 540,000 unique IDs per Group Code
Typical Transmission Range	Up to 300 ft
Radiated Emissions	71.8 dBuV/m at 3 meters (maximum)
Modulation	ASK
Stability	Saw stabilized

ENCLOSURE

Case Length	2.15 in (54.60 mm)
Case Width	3.40 in (86.36 mm)
Case Height	0.22 in (5.58 mm)
Case Weight (with sensor)	0.90 oz (25.5 g)
Construction	Injection-molded polycarbonate enclosure
Durability	Tough, impact resistant and temperature stable

ENVIRONMENTAL

Operating Temperature	-20° C to +70° C
Storage Temperature	-40° C to +80° C
Sealing	Splash resistant

POWER

Battery Type	Lithium CR2032 coin cell
Smart Sensor Feature	Low battery indication
Battery Life	> 3 years *

* Battery life measured at 2-second beacon interval.



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