R120 Door Sensor

RF CODE
Sensors

The R120 Door Sensor monitors and reports the door status of the racks in your data centers, enabling you to track enclosure access attempts using your active RFID asset inventorying infrastructure.

Features & Benefits

- Encoded Radio Transmissions at 433 MHz
- Designed for Use on Rack Cabinet Doors
- Enables Rack Enclosure Access Monitoring
- Industrial-Strength Adhesive Backing Allows for Easy Installation
- Low Power Consumption for Long Battery Life
- Superior Anti-Collision Technology for High Sensor Densities

The 433 MHz R120 door sensor is a battery-powered RF transmitter that attaches to standard IT rack cabinet doors, or any door/frame that needs to be continuously monitored. Once installed on the door frame the R120 will monitor and report the door status, enabling you to track enclosure access attempts using your active RFID asset inventorying infrastructure.

The 433 MHz R120 sensor is a battery- powered RF transmitter that attaches to the door of a standard rack cabinet or other door frame. Every sensor broadcasts its unique ID and the door status message once every 10 seconds. Door status messages are received by RF Code readers.

These affordable sensors consist of an active RFID sensor and a corresponding magnet assembly. Each piece features an industrial-strength adhesive backing for quick and easy installation. The R120's form factor ensures clear signal transmission in high-density rack and data center deployments. Plus, RF Code's patented communication protocols allow for very high sensor densities.

R120 cases are impact-resistant, splash-resistant and temperature stable. The R120 sensor operates with a very low duty cycle that translates to long battery life (typically 5-7 years with a 10-second beacon rate).

RF Code solutions eliminate expensive, inaccurate, time-consuming manual processes while increasing visibility of your data center's rack-based assets. With RF Code, you have "instant inventory"—automated, real-time, on-demand physical asset inventory and management for your data centers.

RF Code R120 Door Sensor Specifications

OPERATION	
Operating Frequency	433.92 MHz
Group Code & Sensor ID Codes	> 540,000 unique IDs per Group Code
Typical Transmission Range	> 30 ft in the data center
Radiated Emissions	71.8 dBuV/m at 3 meters (maximum)
Modulation	ASK
Stability	Saw stabilized

ENCLOSURE	
Case Length	1.72 in (46.6 mm)
Case Width	2.22 in (56.4 mm)
Case Height	0.30 in (7.62 mm)
Case Weight (with sensor)	0.40 oz (11.3 g)
Construction	Polycarbonate
Durability	Tough, impact resistant and temperature stable

ENVIRONMENTAL	
Operating Temperature	-20° C to +70° C
Storage Temperature	-40° C to +80° C
Operating Humidity	< 95% RH non-condensing; not recommended for outdoor applications
Sealing	Splash resistant

POWER	
Battery Type	Lithium CR2032 replaceable coin cell
Smart Sensor Features	Low battery indication
Battery Life	5-7 years (typical)

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