RFCODE

R135 Fluid Detector Sensor

The “wire-free” R135 Fluid Detector Sensor features a revolutionary thin-film leak sensor that can easily be applied to floors, walls, or even wrapped around pipes or other objects.

- **Easy to deploy** leak sensor film that can be applied to floor, walls, or pipes
- **Instant notification** of wet or dry status
- **Wire-free** sensor provides wireless leak detection
- **Works with** all RF Code fixed readers
- **Flexible** mounting options
- **Integrates** with RF Code’s CenterScape application
- **Low power** consumption for long battery life

The R135 Fluid Detector Sensor is a real-time liquid detection sensor that totally eliminates the need to wire or cable a data center for liquid leak detection capabilities. Combining thin-film technology with RF Code’s real-time, wire-free environmental monitoring technology, the sensor provides the freedom and ease to deploy liquid detection wherever vulnerabilities to conductive liquids threaten expensive IT assets.

The unique qualities of this thin- film sensor make is easy to deploy this sensor in a variety of previously difficult to monitor areas such as:

- Floor or ceiling-mounted pipes
- Vulnerable floor areas including areas under or above a raised floor
- Water delivery systems and chillers, including those found under raised floors in older data centers
- Air conditioning units

The R135 Leak Sensor Film attaches to an RF Code active RFID sensor via a three-meter cord, allowing maximum placement flexibility.

Unlike traditional leak detection sensors that need “air time” to dry off between water incidents, the RF Code film-based sensor can be immediately wiped down and ready for action instantly. As a result, there is no leak detection downtime—the period between incidents that typical leak sensors require to dry off fully before recouping their ability to sense for water presence. In addition, the amount of liquid presence needed to initiate a leak alert is minimal, thereby reducing response time to an emerging threat.

Like all RF Code wire-free sensors, information captured by the sensor is instantly broadcast, providing real-time monitoring and alerting about environmental conditions at a site.

R135 Fluid Detector Sensor Specifications

Operation

Operating Frequency	433.92 Mhz
Group Code & Sensor ID Codes	> 540,00 unique IDs per Group Code
Typical Transmission Range	> 30 ft. in the data center; up to 300 ft. open field
Emitted Radiated Power	71.8 dBuV/m at 3 meters (maximum)
Modulation	ASK
Stability	SAW stabilized

Enclosure

Case Length	1.70 in (43.18 mm)
Case Width	2.88 in (73.15 mm)
Case Height	0.50 in (12.7 mm)
Case Weight (with sensor)	0.66 oz (18.71 g)
Wire Length	12 in (304.79 mm)
Construction	Injection-molded polycarbonate enclosure
Durability	Tough, impact resistant and temperature stable
Mounting Options	Industrial-strength adhesive or screw-mountable snap-in bezel

Environmental

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

R135 Fluid Detector
Sensor Specifications(continued)

Power

Battery Type	Lithium CR2032 replaceable coin cell
Smart Sensor Feature	Low battery indication
Battery Life	> 5 years (typical)

Sensor Operation

Minimum Switching Time (open)	200ms minimum
Minimum Switching Time (Closed)	200ms minimum
Maximum Switching Rate	20 cycles per minute
Minimum Reporting Time	3 seconds per cycle
Resistance (open)	>50M ohm
Resistance (closed)	<1M ohm

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