

# FD348R Rack-Mounted Zone Detection

## *Multiple Zone Fiber Optic Intrusion Detection System*

*For a rack-mounted, remote intrusion detection requirement, the Fiber SenSys FD348R Fiber Optic Intrusion Detection System provides high-security and resistance to tampering and nuisance alarms.*



The **FD348R** alarm processing unit (APU) is a remote sensing system that provides maximum protection against intrusion, while offering superior tamper prevention features and tools to eliminate nuisance alarms.

A high-performance intrusion detection system installed with the **FD348R** enables remote sensing capabilities up to 20 kilometers away from where the APU is located. This rack-mounted APU offers additional features, such as XML integration via TCP/IP and recording of multiple alarm conditions.

- Remote Rack-mount detection capability
- Detection zone up to 5 kilometers long
- Insensitive lead-in cable up to 20 km

### Remote communication

The IP/XML option configures the **FD348R** APU with an RJ-45 connector, in order to provide TCP/IP connectivity with your business network. This option enables the APU to send and receive commands while receiving detection information live, with real-time data to remote monitoring stations. Zone coverage and intrusion detection flexibility is enhanced by up to eight **FD348R** APU's per **RK348** unit. A perimeter fence or wall detection zone is monitored from the same rack-mount system.

### Proven reliability

The **FD348R** series Digital Signal Processor (DSP) provides users with an intrusion detection system that is immune to the effects of EMI, lightning, magnetic fields and radio frequency transmissions; with enhanced DSP capabilities to filter out sensor cable signals from nuisance events such as wind, weather and small animals. Made in the USA, the **FD348R** ensures maximum system performance, reliability and high-security. The **FD348R** uses both an insensitive lead-in cable and a sensing cable that detects movement and vibration.

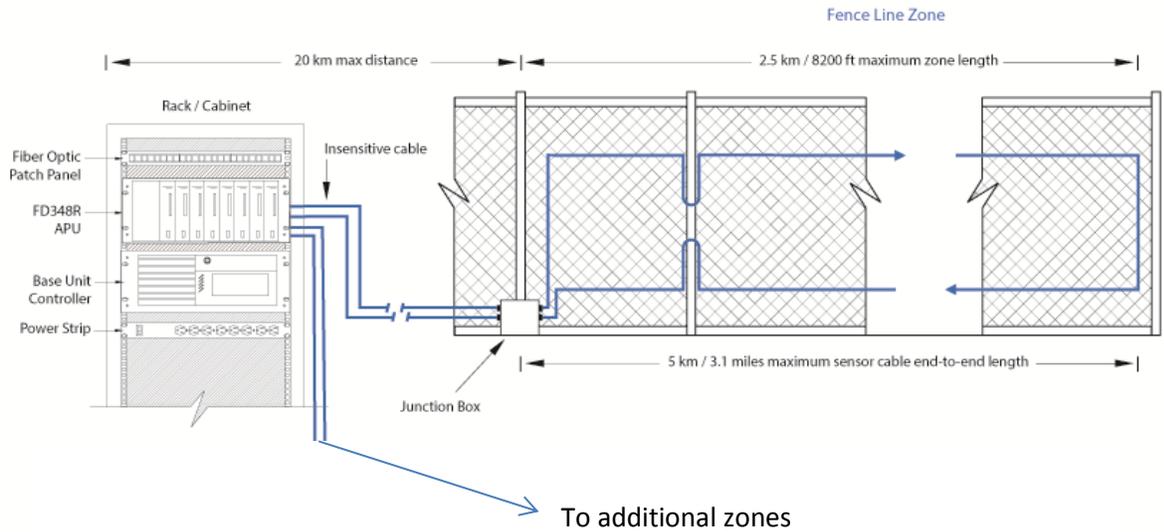
- Intelligent signal processing
- Automatic recording up to 24 alarms
- XML TCP/IP communication option

## Multi-Zone Protection

The **Model FD348R** is uniquely suited to remotely monitor and protect multiple zones from a single rack, with a capability of up to eight alarm processing units. The **FD348R** multi-zone system protects fence or wall zones. Each **FD348R** is calibrated independently and set for optimal detection sensitivity levels. The **FD348R** provides zone coverage up to five kilometers with individual settings to ensure that the **FD348R** screens out sensor signals from non-threatening events, such as wind or wildlife, while focusing on alarm signal events caused by genuine intruders.



CLASS 1 LASER OUTPUT  
This product complies with 21 CFR 1040.10



**Note:** Base Unit Controller refers generically to any industry standard head end or alarm panel.

### Features

- System Type:** Rack-mounted APU
- Rack Mount Capacity:** RK348 rack holds up to 8 APU's
- APU Memory:** Stores data from up to 24 alarms
- APU Communications:** TCP/IP to XML via RJ-45 Connector
- Sensing Element:** Proprietary fiber optic sensor cable
- Insensitive lead-in cable:** Minimum 1 meter
- Maximum Zone Length:** 5 km (3.1 miles/16,400 ft.)
- Maximum length lead-in:** APU to sensing cable 20 km (12.4 miles)
- Sensor Sensitivity:** Uniform over entire length
- Signal Discrimination:** Intelligent Digital Signal Processing
- Tuning and Calibration:** via SpectraView™ and Auto-Tune™

### Specifications

- Output: Form-C type relay**  
100 mA DC (1) Normally-open Relay, (1) Normally-closed Relay
- Operating Power requirements:** 120-240 VAC, 25 Watts, 50-60 Hz
- Sensing fiber temperature range:** - 40°C to 85°C (-40°F to 185°F)
- APU operating temperature range:** 0°C to 40°C (32°F to 104°F)
- System Components:**
  - FD348R (Rack-mount capable)
  - RK348 (Rack-mount unit)
  - SC-3 or SC-4 sensing cable for intrusion detection
  - IC-3 or IC-4 insensitive cable for remote sensing area

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High Performance - High Reliability - High Security