FD348R Fiber-Optic Intrusion Detection System Data Security Specification Sheet

As a high security, rack-mounted intrusion detection system designed for indoor environments, the Fiber Defender[™] FD348R Alarm Processing Unit (APU) is a next-generation alarm processor designed with insensitive lead-in cable. This high-performance intrusion detection enables remote sensing capabilities up to 20 kilometers away from where the APU is located, providing maximum design flexibility and reduced power requirements in the field. The rack-mounted APU offers additional features, such as XML integration via



TCP/IP and recording of multiple alarm conditions. The **FD348R** is an ideal platform for protecting indoor, data raceway and conduit network environments.

The protection of information technology networks is a priority in the private sector and also within the



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branches of the U.S. Military at the Department of Defense (DOD). Ensuring that information is never compromised forms the basis for all network communications security initiatives. The FD348R provides discrimination between normal interior environmental conditions and actual intrusion attempts. Using a pre-programmed algorithm, the FD348R monitors the network raceway, and is tuned and calibrated to adjust the system sensitivity. Made in the USA, the RK348 rack-mount chassis holds up to 8 FD348R APU's and ensures maximum system performance and high-security.

Features

Sensor immune to EMI and RFI Supports multiple-zone operation Sensing cable up to 5 km 20 km remote lead-in cable capability IP/XML communication option Linear, uniform sensitivity

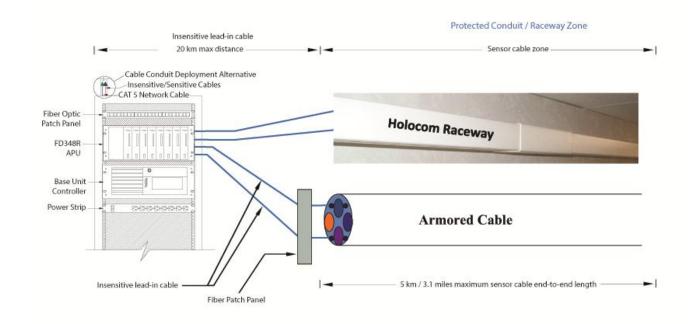
<u>Fiber SenSys</u>#

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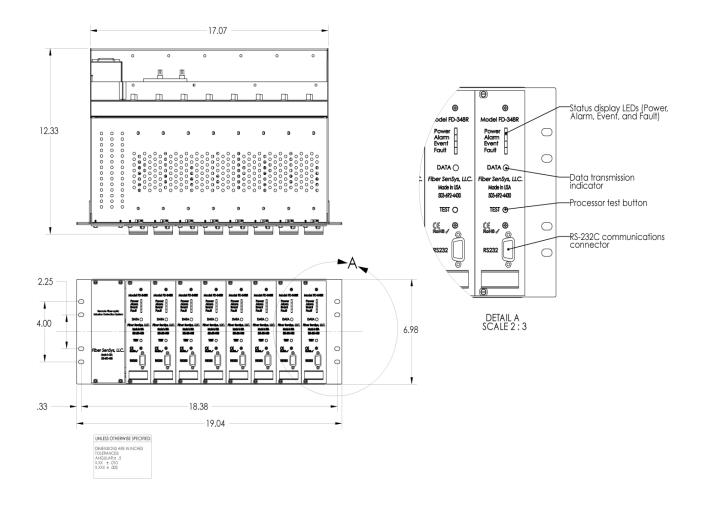
Applications

Protected Distribution Systems (PDS) Military facilities Government networks Corporate networks College campuses Commercial installations

Typical Installation – Physical Data Security



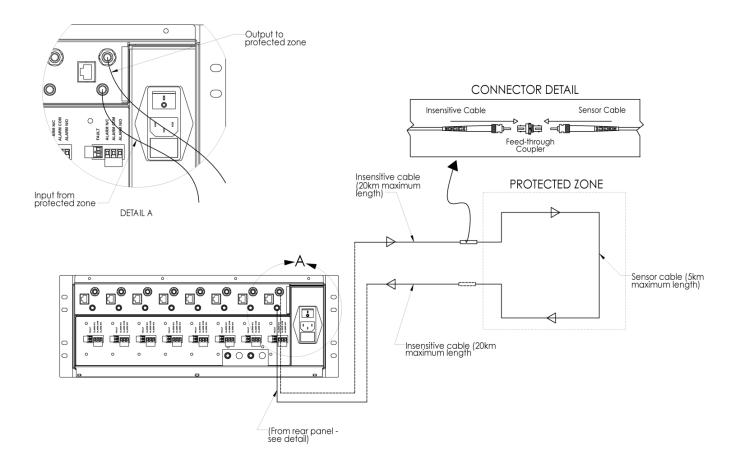
Assembly Diagram RK348 Rack-Mount Chassis (with FD348R APU's installed)



RK348 and FD348R



FD348 APU Card Application Block



FD348R Product Specifications

| Parameter | Specification |
|---------------------------------|---|
| System Type | Rack-mount & vibration-sensing APU intrusion detection cards |
| Input Operating Power | Operation: 120 - 240 VAC , 50 to 60 Hz, ~3 W plus 3 W per APU card Input Power: ~ 28 W @ 120 VAC (w/ 8 APU Cards), Power Factor 50 |
| Communications | TCP/IP to XML via RJ-45 connector ; |
| | PC or Hyperion Programming via RS-232 (also with USB adaptor) |
| Signal Discrimination | Intelligent Real-time Digital Signal Processing (DSP) |
| Programming Method | RS-232 using laptop PC or Hand Held Calibrator |
| APU Alarm Memory | Stores 24 alarms |
| Alarm Output Relay | Form-C type, 100 mA (1) normally-closed, (1) normally-open relay contacts |
| Alarm Relay Ratings | 28 to 14 AWG, 24 VDC non-inductive |
| APU Operating Temperature Range | 0°C to 40°C (32°F to 104°F) |
| Cable Temperature Range | - 40°C to 85°C (-40°F to 185°F) |
| Maximum lead-in Cable Length | 20 km (12.4 miles) |
| Maximum Sensor Cable Length | 5 km (16,400 feet / 3.1 miles) |
| Sensor Cable Sensitivity | Uniform over entire length |
| Alarm Relay Activation Duration | Programmable 0 to 10s |
| RK348 Rack Chassis Dimensions | 17.78 cm x 48.26 cm x 34.93 cm (7" x 19" x 13.75") H x W x D |
| Regulatory Compliance | CE, RoHS, FCC Part 15 |
| Software Compatibility | AutoTune™ Calibration Software; Fiber Commander™; SpectraView™ |
| Industry Compatibility | Compatible with many varieties of network architectures, including secure passive optical networking (PON) |

Drawing Notes:

- The FD348R Alarm Processor Unit is compatible with all industry leading head end systems. The "Base Unit Controller" refers generically to controller units common to all annunciators and head end systems.
- To achieve positive network shutdown of affected zones (in the event of an alarm condition), FSI optical cutoff switches (OCS) may be used (not shown).
- For specific design and applications of the FD348R, including the alarming of existing "dark" fiber (within distances and specifications), please refer to FSI application notes, available from the FSI website, or by contacting your territory representative.

For more information, contact us at: info@fibersensys.com Tel: +1(503) 692-4430 Toll free (US) +1(888)736-7971 www.fibersensys.com



High Performance - High Reliability - High Security