

Fiber Defender 348R™

Remote fiber-optic perimeter & data security system



- ✓ Backward compatible with **FD-208R™**
- ✓ XML integration via TCP/IP
- ✓ Wind rejection
- ✓ Immunity to lightning/EMI
- ✓ Automatic alarm waveform recording
- ✓ CE and RoHS Compliant

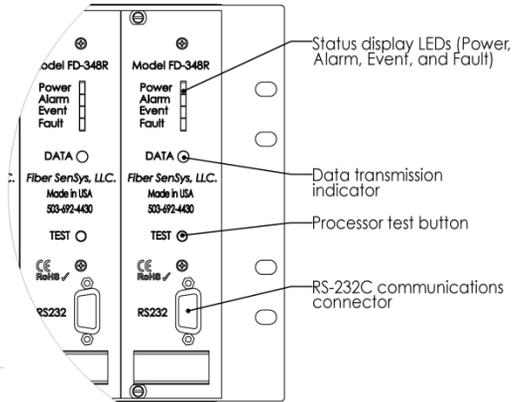
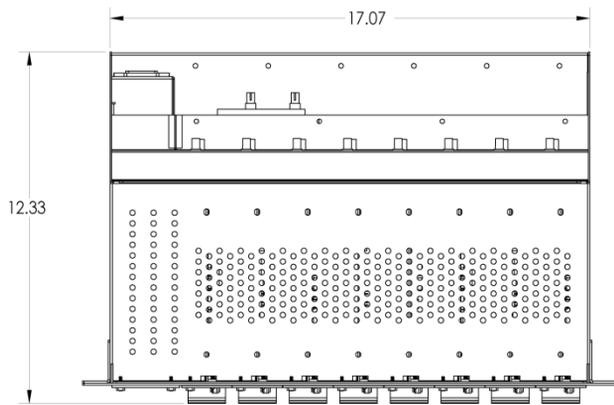
The **FD-348R™** alarm processing unit (APU) is the replacement for the highly successful **FD-208R™**. It is backward compatible with the **FD-208R**, retaining all the features, functions, and specifications while offering a host of new features such as XML integration, alarm history, and automatic waveform recording of the last 24 alarms.

The **FD-348R**, like the **FD-208R**, is a rack-mounted fiber-optic sensor ideal for fence and buried perimeter security around military, industrial, residential, and high-value commercial property. Each 19-inch **RK-348™** rack holds up to eight **FD-348R** APUs.

The **FD-348R** uses two types of optical fibers. The sensing fiber, located at perimeter zones, detects minute vibrations in a fence or in the ground. The APU uses signals from the

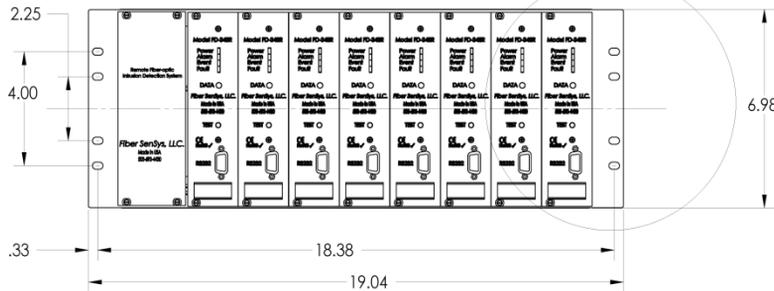
sensing fiber to sound alarms. Special non-sensing fiber is used to connect the APUs to the sensing fibers. This allows the APUs to be remotely located from the secure perimeter by as much as 20 km.

All fiber-optic sensors manufactured by **Fiber SenSys** use the industry's most advanced digital signal processing to discriminate between real threats and signals caused by things like small animals and wind. Our **SpectraView™** software provides a real-time spectral view of the signal from the sensor, and numerous parameters for tuning the system's response. Our **AutoTune™** software will even tune the system for you, providing expert results with virtually no training required.

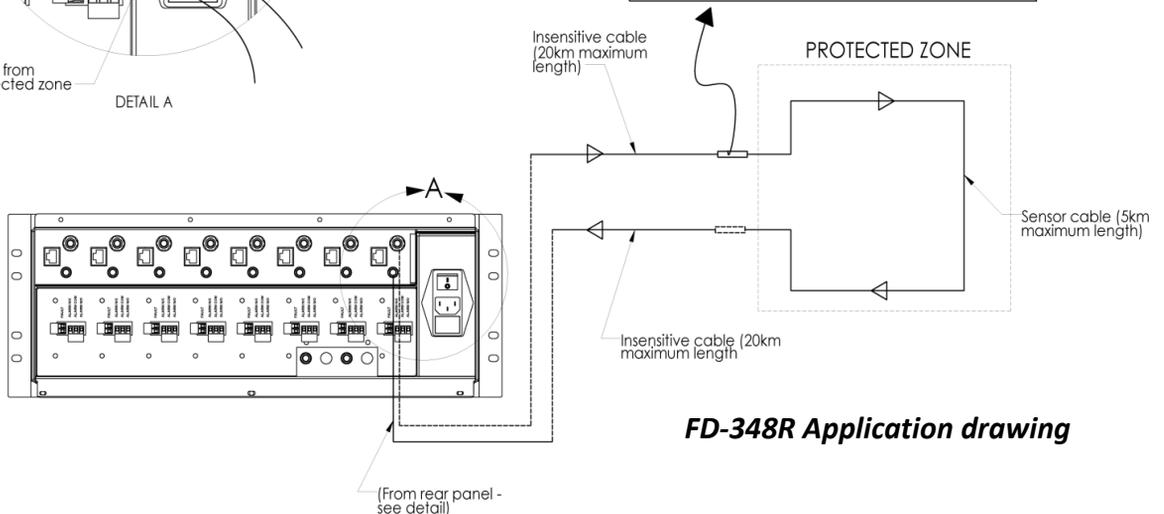
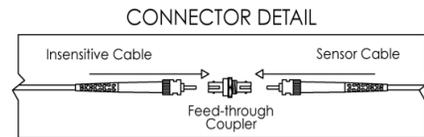
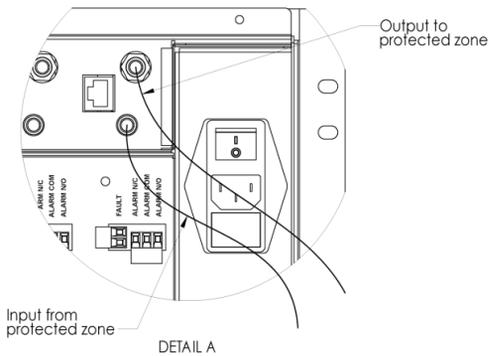


DETAIL A
SCALE 2 : 3

Assembly diagram, RK-348 with FD-348R installed



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGLES ± .5
XXX ± .010
XXXX ± .005



FD-348R Application drawing



Sensing fiber specifications

Operating temperature range	-55°C to 75°C
Humidity	100% condensing
Sensitivity	Uniform over entire length
Insensitive fiber	IC-3 (3mm), IC-3D (duplex), IC-4 (buried), 20 km max.
Sensing fiber	SC-3 (fence), SC-4 (buried), 5 km max
Conduit EZ-300NSS , EZ-400NSS EZ-300SS	100 meter (5/8", 1/2") non-split conduit kit 100 meter split conduit kit
Connector type	ST

Product specifications: alarm processor units installed into FD348R rack

Operating temperature range	0°C to 55°C
Humidity	90% non-condensing
Communications Network compatibility Programming Alarm and fault outputs	XML via TCP/IP port and Fiber Security Network (FSN) RS-232 using laptop PC or Hyperion™ hand-held calibrator 100mA @ 400V normally closed or normally open relay contacts, XML via TCP/IP, Fiber Security Network (FSN)
Electrical power and voltage	120-240 VAC, 25 watts, 50 or 60 Hz
Rack physical specifications Capacity Height Width Depth	Max 8 FD-348R 6.98 in 19 in 12.33 in
Product compatibility	SpectraView™, AutoTune™ Calibration software

Security – Performance – Reliability - Technology

Features:

Full two-year warranty
Remotely located electronics
Immunity to lightning/EMI
Automatic tuning algorithms
Wind rejection

Applications:

Military
IT security
Pipelines
Electrical substations
Correctional institutions

Deployments:

Fences
Buried
Walls
Secure data
Rooftops



Learn more

Create peace of mind while protecting your resources and people. Call us today – our sales and support staff are ready to answer your questions.



CLASS 1 LASER OUTPUT
This product complies with 21 CFR1040.10

Fiber SenSys[®]

HIGH PERFORMANCE • HIGH RELIABILITY • HIGH SECURITY

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