

## FD322–Rapid Fiber Kit™ Intrusion Detection System

### Specification Sheet

*The FD322–Rapid Fiber Kit™ is a Perimeter Intrusion Detection System packaged in a kit to facilitate quick and easy installation at a very competitive price. This all fiber-optic sensor solution solves many perimeter security problems inherent at commercial, industrial, and critical infrastructure facilities.*



The **Fiber Defender® FD322–Rapid Fiber Kit™** incorporates technology that has been successfully deployed in thousands of high-security facilities throughout the world, in a low-priced and easy to use sensor. The solution consists of pre-terminated sensing fiber connected to the alarm processing unit (APU) and tuned and calibrated using the **FD322 Tuning Software**. The APU detects intruders attempting to climb or cut through fences. Unlike metallic (coaxial) sensors, the **FD322–Rapid Fiber Kit™** uses advanced fiber-optic sensing that is unaffected by UV radiation, moisture, salt, radio frequencies or other EMI sources such as lightning strikes. As a reliable and efficient solution for fence protection requirements, the system also is capable of operating in the harshest of environments.

#### Return on investment – Low total cost of ownership

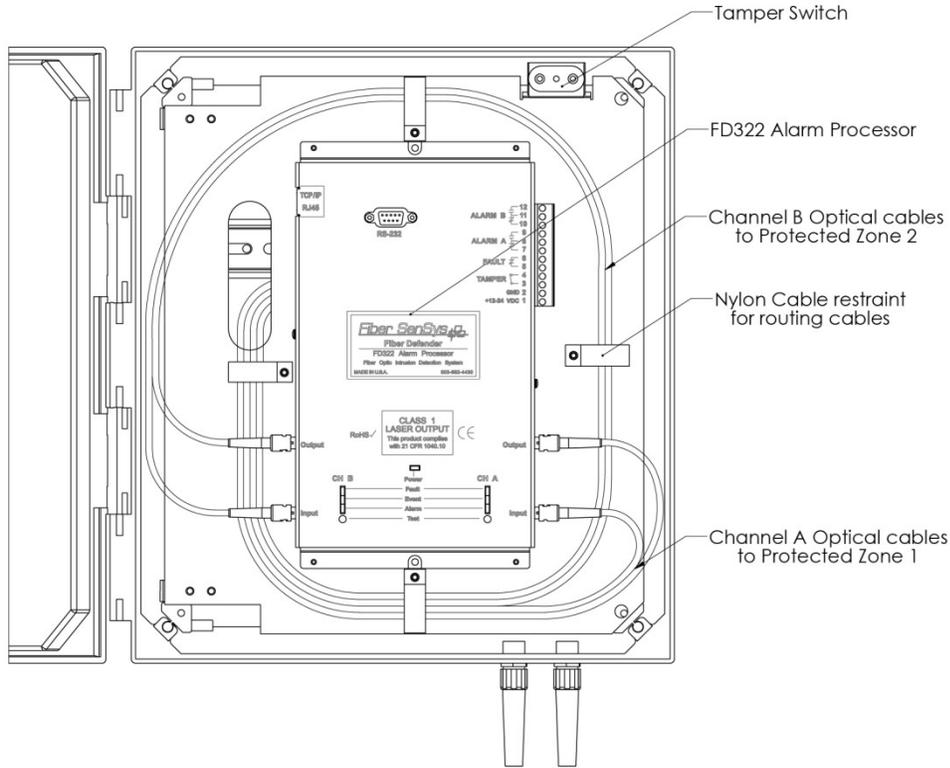
The **FD322–Rapid Fiber Kit™** is the most economical and reliable fiber-optic perimeter sensor you can buy. Its economic advantage is found not only in the low purchase price, but also in its nearly nonexistent cost of ownership. The alarm processor will last for years, and the cost of nuisance alarm investigation is eliminated with the use of the tuning and calibration software.

#### FD322–RAPID FIBER™ FEATURES AND BENEFITS

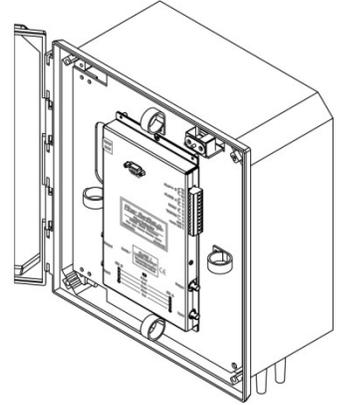
- Two fully independent zones, each of which can support up to 500 meters of sensing fiber.
- Durable fiber-optic sensing unaffected by chemical or electrical environmental elements such as corrosion, RFI, EMI, and lightning.
- TCP/IP and Form C dry relay contacts ensure a high level of integration and communication options.
- The system can be fully integrated with head end systems for a total system solution when combined with other security elements such as video cameras and other third-party devices.
- The **FD322–Rapid Fiber Kit™** APU, NEMA 4X enclosure, mounting hardware, tamper switch, power supply, pre-terminated fiber-optic cable, and custom tuning software.

For more information, contact us at:  
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Tel: +1(503) 692-4430  
Toll free (US) +1(800) 641-8150  
[www.fibersensys.com](http://www.fibersensys.com)

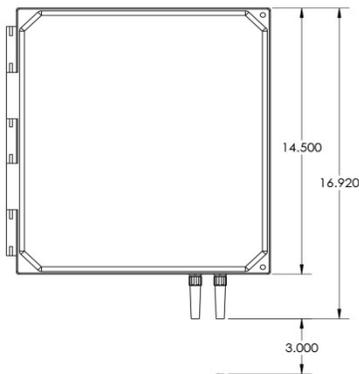
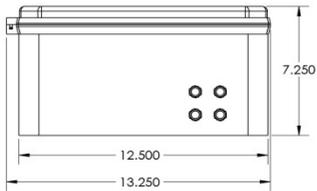
# FD322-RAPID FIBER™ ENCLOSURE APU PANEL VIEW



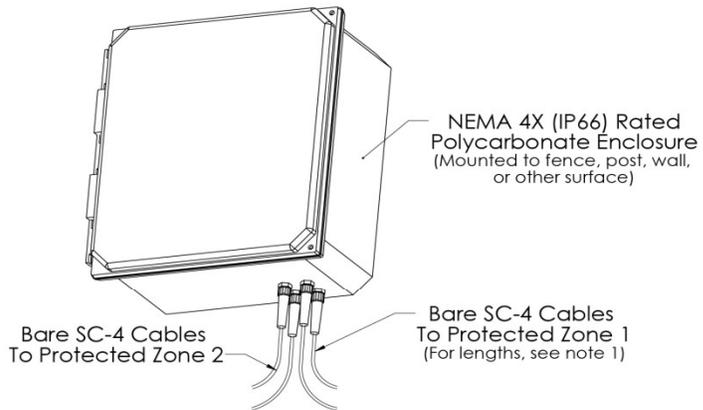
Isometric View not to Scale



# FD322-RAPID FIBER™ ENCLOSURE DIMENSIONS AND OVERVIEW

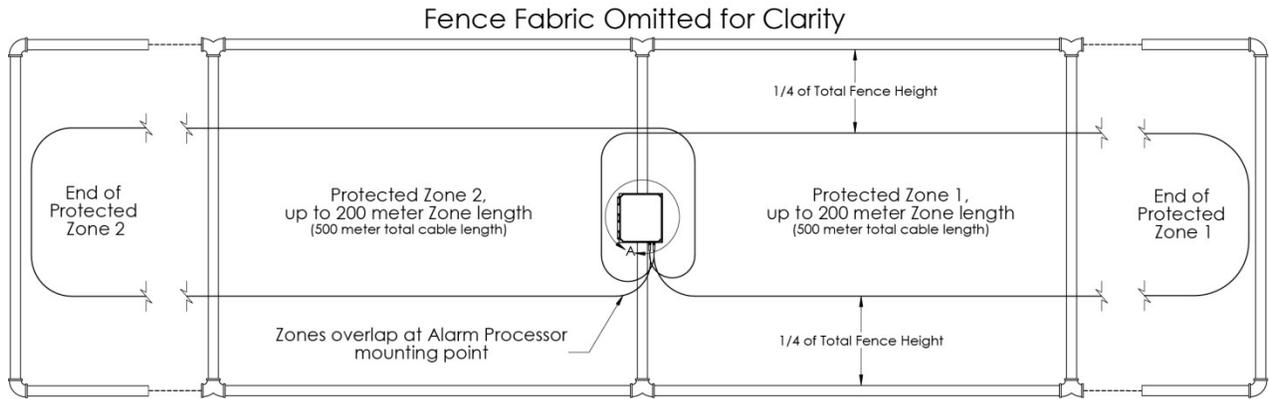


Allow at least three inches for cable to prevent sharp bends

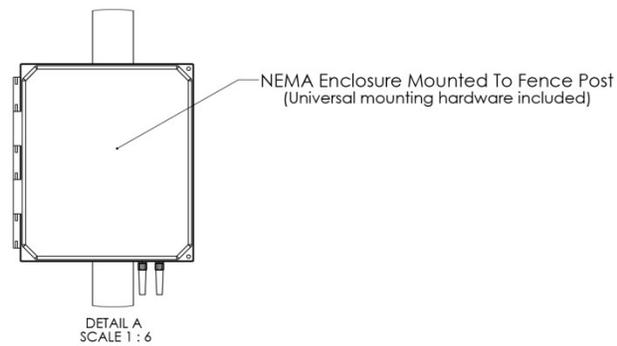


Note 1: Sensing cables available in pre-connected lengths of 250 or 500 meters.

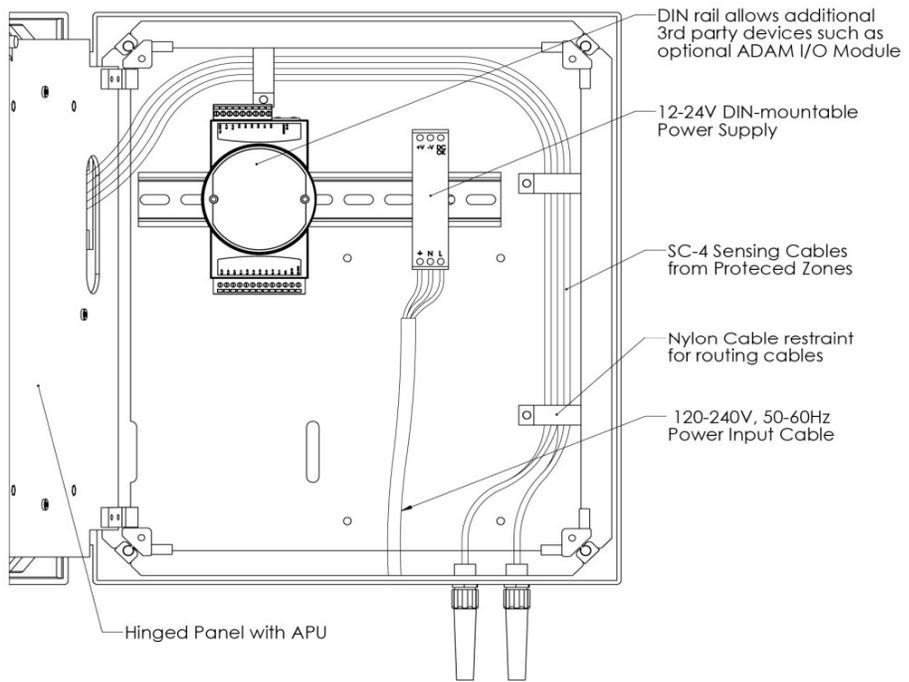
# FD322-RAPID FIBER™ FENCE DEPLOYMENT DETAIL



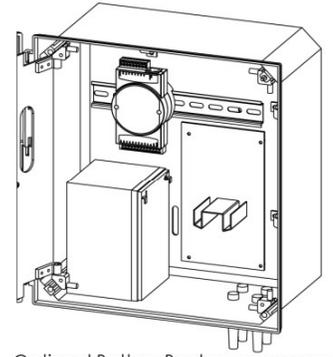
Note: Sensing cables are pre-connectorized and available in lengths of 500m (~200m zone) and 250m (~100m zone)



# FD322-RAPID FIBER™ ENCLOSURE BACKPLANE VIEW



Isometric View not to Scale



FD322-RAPID FIBER KIT FEATURES	APPLICATIONS
Two zones per APU, each fully independent and tunable	Construction sites
Pre-terminated 250 and 500 meter cable lengths	Commercial facility locations
TCP/IP and relay output for total system integration	High-end residences
Simple user interface	Corporate buildings
Automatic adaptive wind rejection	Manufacturing plants
Durable enclosure and universal power supply included	RV/Marine storage
Online Training and Certification	Industrial facilities

FD322-RAPID FIBER TECHNICAL SPECIFICATIONS	
<b>Enclosure Specifications</b>	<ul style="list-style-type: none"> <li>Polycarbonate Construction</li> <li>NEMA 4X rated</li> <li>Dimensions: 14" x 12" x 6"</li> </ul>
<b>Sensor Cable</b>	<ul style="list-style-type: none"> <li>Passive optical fiber; corrosion resistant, and immune to EMI</li> <li>Pre-terminated with ST polished connectors</li> <li>500 meter max. length per channel (loop-back design will affect distance)</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>12VDC DIN rail mounted</li> <li>Input range – 85VAC to 264VAC, or 120DC to 370DC</li> <li>Output of 12VDC, 10 Watt (0.84 Amp) maximum</li> <li>Operating temperature: -20°C to +70°C</li> </ul>
<b>Optional Battery Back-up Kit</b>	<ul style="list-style-type: none"> <li>12 Amp-hour battery (approx. 36 hours operation on FD322)</li> <li>Power Supply – output of 12V or 24V, selectable</li> <li>Input requirements of 115AC or 230VAC, 50-60Hz</li> <li>Operating temperature range of -20°C to +49°C</li> </ul>

FD322 ALARM PROCESSOR SPECIFICATIONS	
<b>Number of zones per APU</b>	<ul style="list-style-type: none"> <li>2</li> </ul>
<b>Communications</b>	<ul style="list-style-type: none"> <li>RS-232 serial communications (used for system configuration)</li> <li>TCP/IP</li> <li>Form C Contact Closures (100mA, 24VDC maximum)</li> </ul>
<b>Tuning Parameters</b>	<ul style="list-style-type: none"> <li>Sensitivity (for cuts and climbing)</li> <li>Number of events before alarming (for cuts and climbing)</li> <li>Low-frequency cutoff (for cuts/climbing)</li> <li>Wind rejection</li> <li>Alarm relay time</li> </ul>

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