REDWALL®
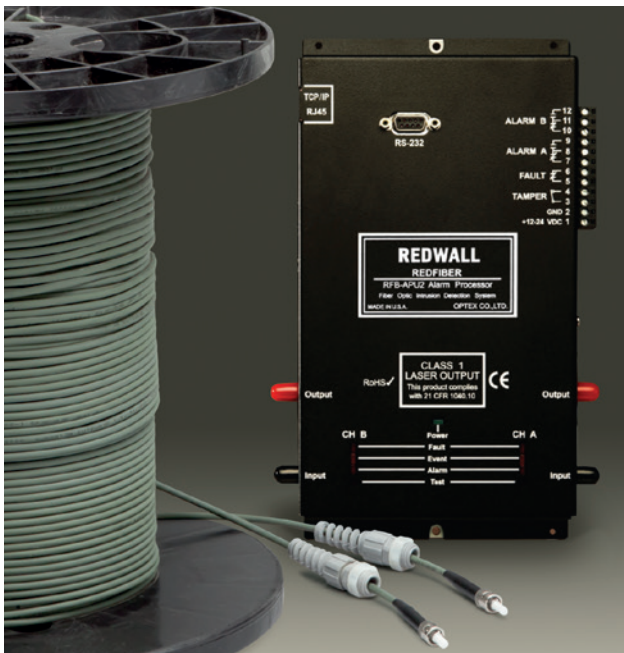
RAPID REDFIBER™ series

Two-zone fibre-optic perimeter intrusion detection system kits

The RAPID REDFIBER™ series offers cost-effective, high performance fibre-optic intrusion detection kits to be mounted on fences and includes all parts needed for installation. The two-zone kits have been developed to suit small to medium size perimeters with detection zones not exceeding 200m each.

A choice of two Alarm Processing Unit (APU) models, one analogue and the other a PoE compliant version that includes an IP module integrated with all major Video Management Software (VMS) platforms*, is available, as well as a number of pre-connected cables to fit the length of each detection zone.

Harnessing the latest fibre-optic technology, the RAPID REDFIBER uses sophisticated algorithms to detect intruders who are attempting to climb over, crawl under, or cut through a perimeter line. These algorithms are also able to distinguish between genuine intruders and nuisance alarms that might be caused by wind or small animals. Unlike metallic (coaxial) sensors, the advanced fibre-optic sensing cable is not affected by harsh environments, including UV radiation, moisture, salt, or even lightning strikes.

*to check the updated list of VMS platforms that has integrated the event code generated by the RRF-APU-POE, please consult the www.optex-vms.com website.

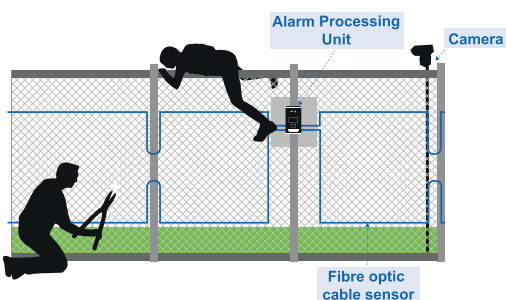## Features

Great value for the best of technology
RAPID REDFIBER delivers the best of the fibre-optic sensing technology and Alarm Processing Unit to a very competitive price. It makes it both a reliable and economical perimeter security solution. The high performance rate and the low maintenance cost contribute both to a very low cost of ownership.

Two fully independent zones
The RAPID REDFIBER Alarm Processing Unit manages two fully independent zones, each supporting up to 200 meters detection zone. Each zone has its own alarm output.

Easy and simple installation
The RAPID REDFIBER kits provide all parts necessary for an easy installation, from the pre-connected fibre-optic cables and nylon ties to the Alarm Processing Unit (APU), its enclosure box and the tuning software.

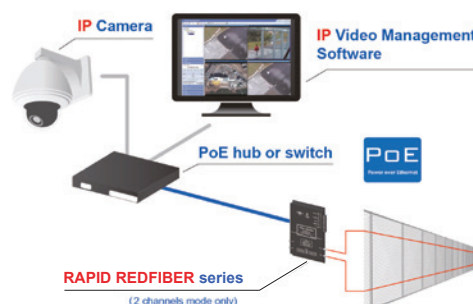### Sensing cable immune to EMI, RFI & lightning
Durable fibre-optic sensing cable is unaffected by chemical or electrical environmental elements including corrosion, EMI and lightning strikes.

Proven technology
RAPID REDFIBER incorporates Fiber SenSys® proprietary and patent-pending technology that has been successfully deployed in thousands of fibre-optic sensors throughout the world.

High performance intrusion detection
The RAPID REDFIBER series provides a high capture rate while eliminating nuisance alarms generated by environmental changes such as wind, rain or non-critical events (small animals, vibrations).

RRF-APU-POE are PoE compliant and integrate with all major VMS platforms

How to select your RAPID REDFIBER kit?

1. Select the Alarm Processing Unit (APU) kit model

Items included in the APU KIT	RRF-APU Two channel APU Kit	RRF-APU-POE PoE/IP two channel APU kit
Two-zone RAPID REDFIBER APU	●	●
IP 66 rated enclosure box	●	●
Tuning software	●	●
POE-IP module	–	●

2. Select the sensing cable kit

Based on the length of each detection zone, please select separately the sensing cable kit needed for detection zone 1 and the one needed for detection zone 2. For instance if the first detection zone is 75m long, and the second 150m, please select RRF75 and RRF150.

Items included in the sensing cable kit	RRF75	RRF100	RRF150	RRF200
Sensing cable	Pre-terminated sensing cable to cover a 75m loop	Pre-terminated sensing cable to cover a 100m loop	Pre-terminated sensing cable to cover a 150m loop	Pre-terminated sensing cable to cover a 200m loop
Connectors	Pre-fitted	Pre-fitted	Pre-fitted	Pre-fitted
UV resistant nylon ties	Included	Included	Included	Included
Strainers	Included	Included	Included	Included

Alarm Processing Unit (APU) specifications

	RRF-APU	RRF-APU-PoE
Application	Fence	
Zones	2 zones of max 200m each	
Sensing cable	Passive, optical fibre, resistant to EMI and corrosion	
Installation	The sensing fibre-optic cable can be attached directly to the fence using nylon ties	
Length of sensing cable delivered	Refer to the sensing cable kits listed above	
APU electrical power	Input 12-24 Volts Power: 3 Watts	PoE (IEEE802.3 af/at compliant)
Light source	Laser	
Communications	RS-232 serial communications, IP/XML.	RS-232 serial communications, IP/XML, IPv4, ARP, UDP, TCP, ICMP, HTTP
Alarm output	• Fault relay – Normally Closed (NC) • Alarm relay – Normally Open or Normally Closed (NO/NC)	REDWALL Event Code
Optical connectors	ST	
Loss calibration	Automatic	
Tuning parameters	• Sensitivity for cuts and climbing • Number of events setting before alarming (for cuts and climbing) • Low-frequency cut-off (for cuts and climbing) • Wind rejection • Tamper (enable/disable) • Alarm relay time	