

FIBALERT®

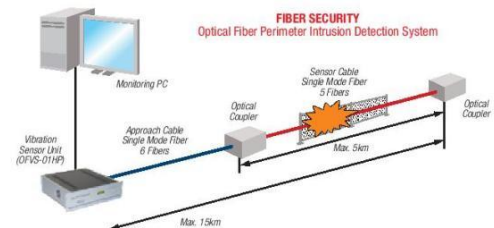
FiberOptic Sensor Cable system



Fibalert enhances a security team's ability to detect and respond to intrusion events while reducing existing system and new construction costs.

The system employs a fence-mounted fiber optic sensing cable for vibration detection and a central sensing device analyzes both the magnitude and pattern of the vibration signatures, resulting in a system that is:

- Responsive: Low falls, positive alarms due to environmental noise
- Reliable: High reliable for detection of Intrusion events
- Accurate: +/- 2.5% accuracy of Intrusion locations over continues fence line lengths, up to 5KM
- Flexible: stand-alone or integrated system with PTZ/FIX Cameras



RBtec

24
YEARS

CERTIFIED QMS
SI
ISO 9001-2000
ISO 9001-2000

IONet
THE INTERNATIONAL CERTIFICATION NETWORK

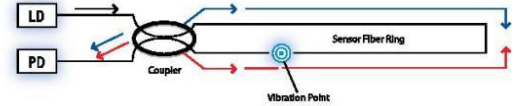
Cable Advantages

Technology: Optical power from Laser Diode is split by an optical coupler and is diffused through an optical fiber ring in two counter directional , when vibration is applied to the sensor cable, strength of the interface light fluctuates due to the change of retroactive index in the region of the cable vibration.

The imitation light arrives at the vibration point with some difference intimae of light after passing the vibration point, the two counter directional light packs are combined to cause interference.

The light interference is detected by photodiode.

Under static condition the interference light is stable.



Cable Specifications

CABLE SPECIFICATIONS	
Sensing Cable Type	Proprietary, Single Mode Construction
Min. Sensing Cable Length	200 meters
Max. Sensing Cable Length	5 km (3.1 miles)
Overall Optical Loss	<14 dB for combined wavelengths
Max. Approach Cable Length	10 km (6.2 miles)
DETECTION SYSTEM SPECIFICATIONS	
Sensing Cable Configuration	Straight Run, Optical Fiber Ring
Detection Method	Auto Tuning, Interferometric Signal Processing
Minimum Zone Length	50 meters
Maximum Zone Count	100 (serial data or Ethernet)
Location Accuracy	± 2.5% of total sensing cable length
Laser Classification	Class 1 Laser Diodes (safe at any exposure level)
Laser Wavelengths	1310 and 1550 nm
Connector Type	SC/UPC
CONTROLLER / OPERATING SYSTEM SPECIFICATIONS	
Dimensions	19" W x 17" D x 5.25" H (3U)
Output Specifications	1 x RS-232 Serial Data 1 x TCP/IP Port 128 x Dry Contacts
Power Supply	100 - 240 VAC, 50 - 60 Hz
Power Consumption	≤100 W (typical)
Vibration Frequency Range	100 Hz - 10 kHz
VSU Operating Conditions	0 to 40°C (32 to 104°F) at 20-80% Relative Humidity
Cable Operating Conditions	-20 to 60°C (-4 to 140°F)
Operator PC	
Operating System	Windows XP Pro
Processor	Intel Pentium Dual Core (2MB L2, 2.5 GHz, 800 FSB)
RAM	2GB Dual Channel DDR2 SDRAM at 800MHz
Hard Drive	7200rpm 320GB Serial ATA Drive (w/ DataBurst Cache)
Optical Drive	16X DVD +/-RW Drive
Additional Software	Visual Basic 2005, Excel, Word
MISCELLANEOUS SPECIFICATIONS	
ence Types	Chain Link, Welded Mesh, or Other Flexible Fencing
seasonal Calibration	Not Necessary

In keeping with our policy of continuous development we reserve the right to alter these specifications without notice.



E-Mail: info@rbtec.com

WEB SITE: www.rbtec.com