

SecureDetect

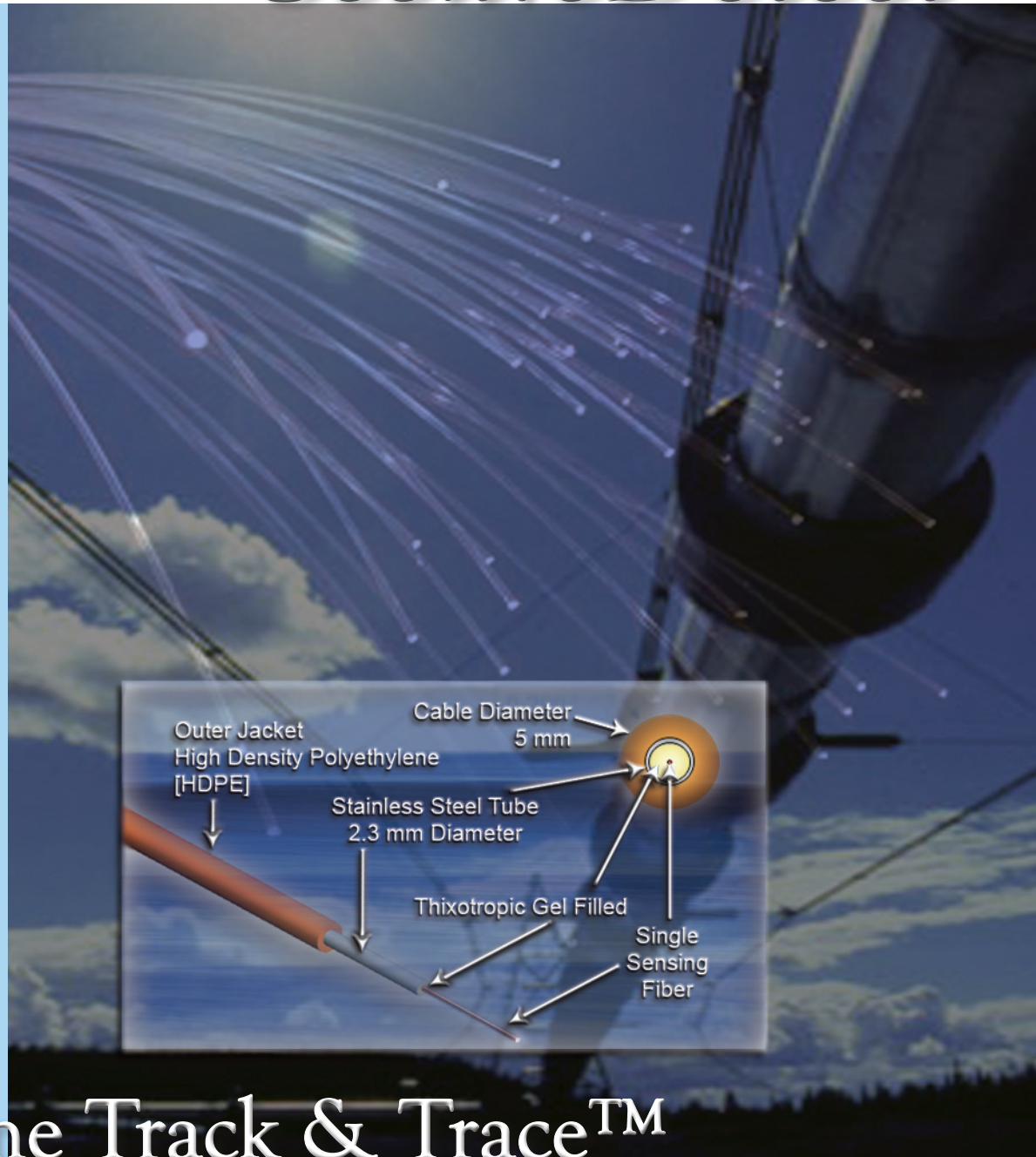
SecureAccess

SecureBarrier

SecureDetect

SecureLight

SecureView

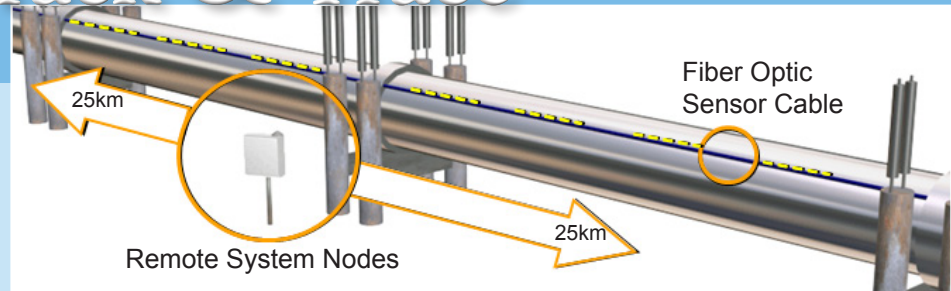
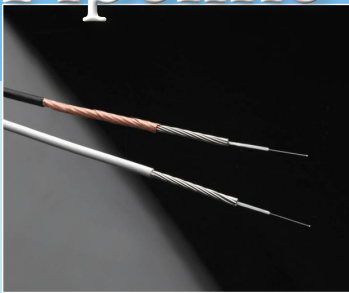


Pipeline Track & Trace™

Safeguards Technology's Pipeline Track & Trace™ is a state-of-the-art fiber optic system that provides a clean, high fidelity reproduction of detected events over tens of kilometers. This all-optical fiber sensor consists of segments that can stretch up to 50km without field repeaters, processors, or any other powered components in the field, thereby drastically reducing the installation cost. The sensing cable can be mounted directly to a pipeline, or buried underground, requires no electrical grounding, and is unaffected by lightning storms and resistant to extreme cold, heat and underwater elements.

SecureDetect

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FEATURES & BENEFITS

Upon detection of an event, the system will alarm, on the display the affected zone will change from green to red, and the operator can “mouse click” on the red zone to obtain classification information, listen to the event in real time, or switch to other classification/analytical tools, if desired.

- The all-fiber sensor completely eliminates electronics at the sensor end
- This leads to improved reliability, EMI/RFI immunity, lower cost, and lighter weight
- With the lowest noise floor of all fiber optic pipe monitoring systems, it can detect events that are up to 10 times quieter
- No couplers or splices required in the sensor cable
- Generates a high fidelity reproduction of all detected events enabling the use of sophisticated signal processing techniques for classification
- Contains multiple, fixed, independent detection zones on a single optical fiber
- Can detect multiple simultaneous events
- PC-based system control and user interface
- Manufactured in the U.S.

APPLICATION

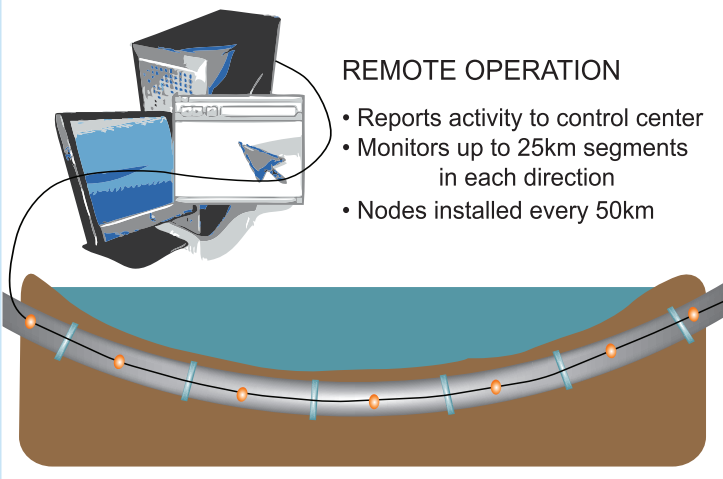
Safeguards Technology's Pipeline Track & Trace™ fiber optic detection system is an efficient and cost-effective solution for protecting pipeline infrastructure whether above ground, buried or underwater.

SPECIFICATIONS

Minimum Detectable Disturbance: .1 μ strain
Dynamic Range: 110 dB
Acoustic Bandwidth: 1500 Hz
System Update Rate: 100 Hz
Channel to channel cross-talk: -40dB
Total Harmonic Distortion: less than .2%
Max. Individual Sensor Cable Length: 25km
Output Interface: RS232/422/USB
Power Requirements: 12 Vdc/10 watts
Number of Zones per Sensor Cable:
Up to 128
Zone Length/Event Resolution:
75-1000 meters
Sensor Operating Life: 20 Years
Operating Temperature:
Sensor Cable: -40 to +185°F
Interrogation Unit: -40 to +140°F
Non-Operating Temperature
Sensor Cable: -55 to +185°F
Interrogation Unit: -55 to +185°F
Optical Connector Type: FC/APC
Cable Break Strength: 350 lbs.

REMOTE OPERATION

- Reports activity to control center
- Monitors up to 25km segments in each direction
- Nodes installed every 50km



**SAFEGUARDS
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