

GPS

STANDARD

Committed to security.

PERIMETER



FIBRE OPTIC PROTECTION **MILES**™



MILES

protection for PIPELINES

MILES™ is a protection system for pipelines. It uses a fibre optic cable and has a very high detection capability, being totally immune to electromagnetic interference and atmospheric conditions. The fibre optic cable requires no power in the field and, therefore, power supply units along the protected perimeter are not required.

The system allows the protection of very long pipelines (up to 25 km) and the area where the sabotage or climbing is taking place is identified to within a few meters. The fibre optic can be installed over many thousands of kilometres, with an analyser every 25 km.

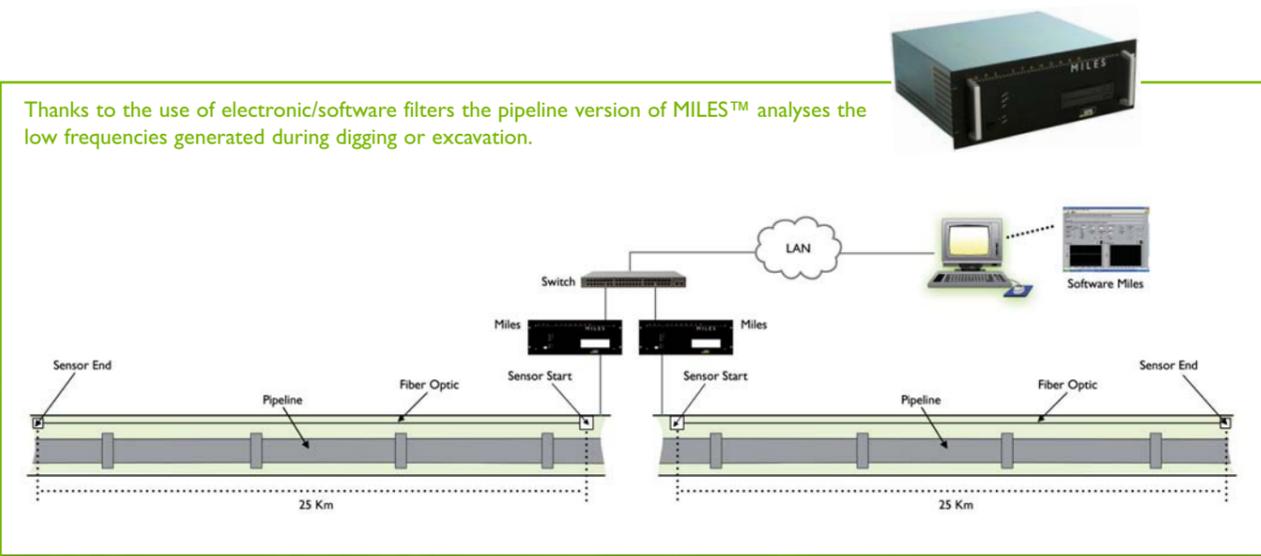
OPERATION
The fibre optic cable is subjected to mechanical stress caused by stimuli, such as pressure, vibration and motion, which changes the transmission characteristics of the light inside the fibre. The change is minimal, but with a source of coherent light obtained with laser diodes and sophisticated amplifier and processing systems, a signal that

can be processed can be obtained. The careful analysis of the signal and the ability to change, using a calibration and monitoring software, specific parameters that determine the system operation, give this product excellent performance characteristics.

ADVANTAGES
MILES™ is resistant to weather conditions, such as rain, snow, hail, etc., because it works using spectrum analysis of the signals. Very low percentage of false alarms due to disturbances such as wind, vibration caused by heavy loads passing nearby, etc; Immune to electromagnetic

disturbances; Calibration is carried out when the system is installed, in real operating conditions; MILES™ does not need any power supplies in field.

Thanks to the use of electronic/software filters the pipeline version of MILES™ analyses the low frequencies generated during digging or excavation.



TECHNICAL SPECIFICATIONS

Maximum coverage of fibre sensor	25 Km
Alarm point approximation	≤ 0,5%
Number of virtual zones	256
Detection configuration	Distributed sensor with a single mode fibre optic 9/125
Control Power supply	66W max, 115..230V 50/60Hz
Field Power Supply	None
Controller dimensions	482(19")x175(5U)x420 mm
Laser specification	Classe IIIA, max power output 10mW / Wavelength 1530/1550
Optical connections	FC/APC
Controller operating system	Windows XP / Windows 7
Alarm interface	Via 10/100 Base-T to SCS software Via Bus 485 to relay card

Retailer of confidence



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