



We Bring Security To Light™

INTERCEPTOR Optical Network Security System offers the best in extrinsic and intrinsic fiber monitoring

Secure Networking requirements are exploding across the Department of Defense and civilian agencies such as the Department of Homeland Security. In addition to the need for the protection of new classified networks, there is a need to protect existing cable infrastructure that was previously carrying unclassified information, but is now required to support the growing demand for secure networking. Much of this infrastructure contains large numbers of low pair count optical and copper cables as well as large backbone cables. The INTERCEPTOR™ Optical Network Security System has the unique ability amongst Alarmed Carrier PDS to provide a multiple layer of defense while protecting in either environment.

Legacy Alarmed Carrier PDS Technology

Using an “extrinsic monitoring” protection profile, legacy alarmed carrier PDS consists of EMT or Rigid Metallic Conduit embedded with a separate (extrinsic) proprietary optical fiber used to detect vibrations that occur when an intrusion into the conduit is attempted. While this protection scheme is very economical, it provides only a single layer of defense to the cables within, which stops at the inner walls of the cable pathway. Of concern is that with ample time to attack the pathway, once defeated the cables being protected are open to unfettered attack. Furthermore, because this method is merely an adaptation of another technology - perimeter security or “fiber fence” - and wasn’t designed for information system security, it possesses other shortcomings including frequent false alarms and the need to embed the sensing fiber making deployment feasible for new installations only.

Not All Alarmed Carrier PDS Technology Is the Same

Designed expressly for information system security, the Interceptor™ Optical Network Security System has redefined Alarmed PDS. Unlike legacy alarmed carrier PDS, Interceptor uses an “intrinsic monitoring” protection profile meaning that it monitors fibers (either dark or active) within the cables being protected to detect motion and handling as well as sense attacks on the cable pathway. This provides a critical multiple layer of defense; fibers can be monitored to sense attacks to the pathway, or each and every critical cable can be monitored directly. Additionally, unlike legacy alarm PDS, Interceptor automatically “learns” the normal network infrastructure conditions and eliminates false alarms. These differences result in fail-safe, nuisance-free monitoring and the ability to scale protection to match the level of threats to the network. Interceptor can be easily added to existing cable systems to upgrade their classification eliminating

the need to install expensive encryptors or construct a Hardened PDS – which is extremely difficult to do on pre-existing cable infrastructure.

For more information, or to speak with a Network Integrity Systems representative regarding your network and its compatibility with the INTERCEPTOR fiber Optic Network Security System, send an e-mail to info@networkintegritysystems.com or call 1-877-4PDS.

