

The Leader in Underground Pathway Protection



LIGHTLOC.com

Features:

- Cost-Effective Fiber Intrusion Detection System
- Extremely Low False Alarm Rates
- Long-Range Monitoring to 25km Standard
- Low Power: 5VDC, <0.5A
- Indoor or Outdoor Rated
- -40C to 70C Operating Temperature Range Available
- 1550nm Laser: -5dBm Typical, 0dBm Maximum Output Per Port
- Operation with LightLOC Fiber
- Instant Alarm Detection
- Configurable to Adapt to Standard Alarm Panels
- Differentiates Between a Breach and Break Alarm
- Momentary and Latched Relay Outputs for Breach and Break Alarms
- Self-Test Diagnostics
- Remote Acknowledgeable Capabilities
- Optimized for Use With the LightLOC Fiber Sensors
- Stand-Alone or Rack-Mountable in 2U Chassis

Overview:

LightLOC Express is a cost-effective fiber-optic intrusion detection device in the LightLOC family of products. It is a zoned-based, modular version of the LightLOC Network System and is capable of monitoring any of the LightLOC sensing devices over miles of fiber including manholes, grates, gates, detection cable and denial cable. It is ideal for discrete points, small systems, and zones.

Express operates by monitoring the power level of optical energy being transmitted and received through a zone. It is an adaptable device which learns the secure state of its zone and immediately detects an event exceeding the unit's threshold. Additionally, Express can differentiate between a sensor breach and a fiber break and is rated for indoor or outdoor use.

As outputs from the device, relays are provided on a rear terminal block in addition to indicator LEDs at the front of the module. Four (4) normally open and normally closed contacts provide communication between Express and an existing site security system. Relays include one each for a Momentary Breach Alarm, Momentary Break Alarm, Latched Breach Alarm, and Latched Break Alarm.

In addition to providing relays, the rear terminal block provides access for remote module control. This includes the abilities to test the module remotely, set the secure state of the system, and acknowledge an alarm. Local control switches are available on the front of the module.

Module Size	8 1/4" x 3 1/2" x 2 1/2"
Rack-Mount Chassis Size	2U
Input Voltage	5V typical, 12V Available
Input Power	2W typical, 3W Maximum
Fiber Type	Single mode
Monitored Wavelength	1550nm typically, 1310nm available
Dynamic Range	30 dB Minimum
Breach Alarm Threshold	2.9dB standard, 0.4dB to 3.5dB available
Break Alarm Threshold	-46 dBm
Time to Detect Alarm	<1 Second
Operating Temperature	0C to 40C (Indoor Units), -40C to 70C (Outdoor Units)
Storage Temperature	-40C to 80C
Outputs	Four NO (normally open) and NC Relay Contacts, Momentary and Latched Breach and Break Outputs

Ordering Information

Stand Alone Express Module

Part Number 8X00052-001

Rack Mount Express Chassis with n number of Express modules

Part Number 8X00054-00n

LightLOC Overview

LightLOC is a patented, fiber-optic based security system providing the optimum in perimeter and access security. The system provides monitoring of remote access points and perimeters using a family of sensors and cables developed and made by LightLOC. Monitored items can include manholes, gates, doors, underground pathways, perimeter vehicle detection and vehicle denial cable systems, and custom applications. Monitoring is possible at distances of up to 25km without the need for electrical power at the monitored locations. The robustness of the system eliminates false alarms commonly seen with other fiber-based security systems.

**For additional information on the LightLOC® system,
please contact Doug Piper at 864-963-5131 or dpiper@lightloc.com**