



LIGHTLOC® EXPRESS 2

ADAPTABLE, EFFECTIVE AND SECURE

Indoor or outdoor intrusion detection

Collins Aerospace Express 2 is a cost effective fiber optic intrusion detection device in the LightLOC family of products. It is a modular zoned system that is capable of monitoring any of the LightLOC® sensing devices, including manholes, grates, gates, and vehicle detection cables. It is ideal for single alarm point monitoring.

Express 2 operates by monitoring the power level of optical energy being transmitted and received through the 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 2 can differentiate between a sensor breach and a fiber break and is rated for indoor or outdoor use. Automatic

baselining allows the device to adjust to environmental factors and still immediately detect an event exceeding the unit's alarm threshold.

Relay outputs are provided on a front terminal block, plus 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 relays, a front terminal block also provides access for a remote control module. This includes the ability 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.



KEY FEATURES AND BENEFITS

- Cost-effective fiber intrusion detection system
- Near zero false alarm rates
- Not sensitive to vibration or other environmental factors
- Long range monitoring to 25+ km standard
- Low power: 12-24 VDC
- Indoor or outdoor rated
- FC or ST connectors
- Detection in less than 1 second
- Dry contact output for integration with standard alarm panels
- Momentary and latched relay outputs for breach and break alarms
- Self-test diagnostics
- Remote acknowledgement capabilities
- Optimized for panel mount installation
- Absence of software provides increased cyber intrusion resilience

SPECIFICATIONS

Unit dimensions	4.1"H x 7.7"D x 4.2"D
Optimal installation	Panel-mount, footprint 4.122"H x 7.7"W 3" clearance required on left side for connections
Input voltage & connection	12V-24VDC via terminal block
Power	3W maximum
Monitored wavelengths	1550 nm or 1310 nm
Dynamic range	50+ dB
Fiber adapter type	FC or ST
Number of fiber connections	1 circuit
Breach alarm threshold	2.9 dB (+/-15%)
Break alarm threshold	-60dBm (+/-15%)
Time to detect alarm	<1 second
Operating temperature	-35° C to 70° C
Automatic baseline	Standard
Attenuation display	Standard with display accuracy of +/-10%
Test/control buttons	Pushbuttons (test breach, test break, acknowledge, baseline)
Remote control abilities	Test breach, test break, acknowledge, and baseline
Relay outputs	4 NO/NC dry contacts (momentary breach and break, latched breach and break)
RoHS status	Compliant

LIGHTLOC OVERVIEW

Collins LightLOC is a patented, fiber-optic based security system for optimum perimeter and access security. The system provides monitoring of remote access points and perimeters using a family of sensors and cables. 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 30+ km without the need for electrical power at the monitored locations. The robust system eliminates false

alarms commonly seen with other fiber-based security systems. Our system is inherently tamper resistant since altering or destroying optical components triggers an alarm automatically.

Specifications subject to change without notice.

**Collins Aerospace**

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