



LIGHTLOC® MULTI-PORT EXPRESS

MULTIPLE ZONE MONITORING

Cost-effective intrusion detection

Collins Aerospace LightLOC® Multi-port Express is a cost-effective fiber-optic intrusion detection device in the LightLOC product family. It is designed for use with sizeable systems of LightLOC fiber optic perimeter sensors. It handles eight independently monitored fiber circuits in 1U of rack space. It is a zone-based system and is capable of monitoring many LightLOC sensing devices over miles of fiber including manholes, grates, gates, detection cable and denial cable.

Our Multi-port Express processors operate by monitoring the power level of the optical energy being transmitted

and received through a zone. Automatic baselining allows the device to adjust to environmental factors and still immediately detect an event exceeding the unit's alarm threshold. Additionally, these processors can differentiate between a sensor breach and a fiber break.

Output relays are provided at the rear of the Multi-port Express unit. Two (2) NO and NC contacts per channel, one each for breach and break, provide communication between the processor and the site security system.



KEY FEATURES AND BENEFITS

- Cost-effective fiber intrusion detection system
- Near zero false alarm rates
- Not sensitive to vibration or other environmental factors
- Eight independent fiber paths monitored
- Low power: 12-24 VDC
- Standard 1U rack-mount chassis
- Long range monitoring to 25+ km standard
- SC connections
- Detection in less than 1 second
- Differentiates between breach and break alarm
- Connects to standard alarm panels
- Built-in test function
- Optimized for use with all LightLOC fiber sensors
- Eight independent fiber paths monitored
- Absence of software provides increased cyber intrusion resilience



SPECIFICATIONS

Unit dimensions	1.68"H x 17"W x 8.74"D
Optimal installation	1U Rack-mount in 19" rack; Desktop; DIN Rail Mount kit sold separately; 3" Rear clearance required for connections
Input voltage & connection	12-24 VDC via terminal block
Power	6W Maximum
Monitored wavelengths	1310nm for -RC Model; 1550nm for -RCA Model
Dynamic range	35+ dB per port
Fiber adapter type	SC
Number of fiber connections	8 circuits
Breach alarm threshold	2.9dB (+/- 15%)
Break alarm threshold	-60dBm (+/-15%)
Time to detect alarm	<1 second
Operating temperature	-40 to 70° C (0 to 40° C recommended)
Automatic baseline	Standard
Test/control buttons	Pushbuttons (test breach, test break, baseline) *buttons control all ports simultaneously
Relay outputs	2 NO/NC dry contacts (momentary breach and break) per port
RoHS	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.



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