

LT-LFS01-LM

LogiRead LF reader for Lumenis

Operator's Manual



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1. Introduction

The LogiRead LF one channel reader LT-LFS01-LM is an RFID integrator modified for Lumenis applications. The LogiRead is available as a stand-alone product, ready to be embedded in every machine designed, produced or marketed by Lumenis. The compact reader provides a complete and low cost read & write module, supporting all HiTag transponders, including HiTag-S types, which feature an anti-collision protocol for simultaneous reading of multiple tags.

The purpose of the LT-LFS01-LM module is mainly, but not limited to, the management of consumables attached to Lumenis systems. It features up to 15cm reading distance, supports anti-collision protocol and includes data encryption options.

2. Specifications

2.1 RFID Specifications

- Operating Frequency: 125 kHz
- Supported Transponders: HITAG 1+2 & HITAG S
- Anti-collision support

2.2 Environmental Conditions

- Operating Temperature: -20°C to +65°C
- Storage Temperature: -40°C to +85°C

2.3 Physical Specifications

- Length: 8cm / 3.14 Inches
- Width: 6cm/ 2.36 Inches

2.4 Power Specifications

- Supply Voltage: 10-24V
- Power Consumption: 0.6W (@ 12V)

2.5 Interfaces

- Communication: RS-232

3. Installation

This module is to be initially installed and tested only by an authorized Lumenis technician.

The LT-LFS01-LM contains 3 connectors to be used within Lumenis systems (refer to Figure 1):

- ✓ J1 – Power.
- ✓ J2 – RS232 communication.
- ✓ J3 – Antenna.



Figure 1 - LogiRead LT-LFS01-LM and an open representative metal housing

After connecting all cables internally in Lumenis system, make sure they are tightly connected or screwed as necessary. Do not turn on the system before all connections are secured.

4. Safety and Regulatory

The LT-LFS01-LM equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules (its FCC ID is designated as PTD-EA-1121660). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ✓ Reorient or relocate the receiving antenna.
- ✓ Increase the separation between the equipment and receiver.
- ✓ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ✓ Consult the dealer or an experienced radio/TV technician for help.

Lumenis is not responsible for any radio or communication interference caused by using other than specified or recommended cables and or by unauthorized changes or modifications to this equipment. Unauthorized changes or modification could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This module also complies with the regulatory standard of *ETSI EN 300 330-1* and *ETSI EN 300 330-2*, subjected to the SII test report No. 9212324456 regarding the LM-LFS01-LM electromagnetic compatibility and radio spectrum matters (ERM) for short

range devices (SRD). Specifically, the operating frequencies, transmitter carrier output levels, radiated spurious emissions, etc. were found compatible to the standards are the module is permitted for use for within Lumenis systems and their intended use.