



Active, Near Field, RFID Reader and Exciter

LS5050

The LS5050 is an intelligent, active, RFID reader with an integrated near field exciter designed to cover strategic, operational processing points such as conveyors, sorting machines, etc. The LS5050 reads all types of Lyngsoe tags such as postal tags, container tags, vehicle tags, etc. The LS5050 is a stand-alone unit that only needs power and network connection to operate.

When a tag passes an LS5050, it reads and registers the unique tag ID along with the exact time of reading and its own ID number, facilitating the capture of exactly when an object passes a specific location. This information is subsequently transmitted to a server through LAN or RS485. The LS5050 is powered either by an external power supply or by PoE.

The LS5050 is fully compatible with standard Lyngsoe RFID equipment facilitating easy integration with existing Lyngsoe RFID applications and more dense process monitoring. The LS5050 also has a number of built-in watchdog functions for diagnostic monitoring of the unit including automatic reset functions, enabling optimum operation availability and uptime.

BENEFITS

- Enables process optimization
- Provides objective process information
- Low cost data collection
- Objective SLA documentation

FEATURES

- Compatible with existing active Lyngsoe RFID technology
- Easy to install
- PoE enabled
- Watchdog enabled



Technical specifications

OVERALL

Tag compatibility	All generations of active tags
Data communication	Ethernet and RS485
Protocol	UPU S23f standard
Power supply	24V DC or PoE
Power consumption	2 Amps
User I/O	Solid state relay 100mA/0-24V
Humidity	Max. 95% non condensing at 104F
Operation temperature	-5°F - +130°F
Storage temperature	-30°F - +160°F
Conformity	FCC Part 15, I-ETS 300-220, I-ETS 300-330, RSS210
Dimensions	11" x 7" x 2"

READER

Data read rate (tag to reader)	38.4 Kbps
Tag transmission frequency	433.92 MHz
Data communication	Ethernet/RS485
Data memory capacity	32 KB
Receiver sensitivity	> -105 dBm at 12 db SINAD for 1 KHz modulation and 15 KHz total
Tag compatibility	All generations of active Lyngsoe tags
Tag technology	RF - active
Power	24 VDC or PoE
Power consumption	Max. 0.3 A.
Humidity	Max. 95% non condensing at 104F
Operation temperature	-5°F - +130°F
Conformity	FCC Part 15, I-ETS 300-220, I-ETS 300-330, RSS210

EXCITER

Frequency Band	119-135kHz
Data Modulation	ASK
Number of Excitation Coils	3 (orthogonal)
Network Interface	RS485, Ethernet
Console	USB
Power Options	24V AC/DC, PoE
Power Consumption	Max. 10 watt
Excitation Distance	Approx. 3.2 ft (adjustable)
Conformity	FCC Part 15, I-ETS 300-220, I-ETS 300-330, RSS210



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