ESCORT MEMORY SYSTEMS

FastTrack™

RFID

FastTrack™ Series RFID Labels

Features
- RFID Labels
- Low-cost
- Adhesive Backing
- Disposable – Mount to Anything
- No Batteries
- Custom Sizes available
- Reusable or Disposable

Applications
- Material Handling
- Access Entry
- Post-Sales Service

Use With
- FastTrack™ Long-Range Conveyor Reader/Writer (LRP820-04)
- FastTrack™ Long-Range DeviceNet Conveyor Reader/Writer (LRP830-04)
- FastTrack™ Long-Range Reader/Writer (LRP820-08)
- FastTrack™ Long-Range DeviceNet Reader/Writer (LRP830-08)
- FastTrack™ Tunnel Antenna (LRP820-10)
- FastTrack™ DeviceNet Tunnel Antenna (LRP830-10)

EMS, a Datalogic Group Company, is the field-proven leader in the development and application of Radio Frequency Identification (RFID) Tags/Labels/PCBs, Antennas, Controllers and network interface modules for tough industrial environments. With over a dozen years of RFID successes in the automotive, electronics, material handling and food processing industries, EMS has built a global reputation in providing customers with complete supply chain solutions – from production to retail EMS has the complete solution!

EMS' FastTrack™ line of RFID Tags/Labels/PCBs and Reader/Writers (or Antennas) provides outstanding RFID solutions for demanding industrial environments. From scorching paint ovens to post office applications, the FastTrack™ family of RFID Tags/Labels/PCBs and Reader/Writers deliver on all of your data collection and tracking demands.

EMS' FastTrack™ RFID (Passive Read/Write) Labels are for low-cost, high-volume oriented applications. With an easy to peel off adhesive backing, the FastTrack™ RFID Label can be adhered to any tote, pallet, carrier and even the product itself, making them value-added tools for the entire Supply Chain.

Long-Range Read and Write distances, Multiple-Tag-In-Field Read/Write technology, industrial Antennas, DeviceNet Reader/Writers, RFID Labels, high-temperature disposable Tags…EMS' FastTrack™ family is your RFID solution.

FASTTRACK™ RFID LABELS ARE A LOW-COST ALTERNATIVE TO BAR CODING

Features

Memory	48 Bytes
Data Transfer Rate	Read Speed 1200 Bytes/Second
	Write Speed 500 Bytes/Second
Operating Temperature	-40° to 120°F (-2° to 49°C)
Storage Temperature	-40° to 120°F (-2° to 49°C)
Protection Class	Depends on Application

Note: Operating Temperature is the range of temperatures at which read, write and fill operations can be performed.

RFID Field and Read/Write Ranges

LRP820-04 / LRP830-04 Passive Reader/Writers (mounted between metallic rollers)

Reading & Writing Ranges with FastTrack™ Passive Read/Write LABELS

	LRP-L5555	LRP-L4982	LRP-L2666	LRP-L90140
Typical Range (Z) (inches/mm)*	7.00/178	7.00/178	6.00/152	9.00/229
Guaranteed Operating Range	6.00/152	6.00/152	5.00/127	8.00/203

LRP820-04 / LRP830-04 Passive Reader/Writers (free air/non-metallic environment)

Reading & Writing Ranges with FastTrack™ Passive Read/Write LABELS

	LRP-L5555	LRP-L4982	LRP-L2666	LRP-L90140
Typical Range (Z) (inches/mm)*	8.50/216	8.50/216	7.00/178	12.00/305
Guaranteed Operating Range	7.50/191	7.50/191	6.00/152	11.00/279

LRP820-08 / LRP830-08 Passive Reader/Writers

Reading & Writing Ranges with FastTrack™ Passive Read/Write LABELS

	LRP-L5555	LRP-L4982	LRP-L2666	LRP-L90140
Typical Range (Z) (inches/mm)*	17.00/432	17.00/432	16.00/406	25.00/635
Guaranteed Operating Range	15.00/381	15.00/381	13.00/330	22.00/559

LRP820-10 / LRP830-10 Tunnel Antennas

Reading & Writing Ranges with FastTrack™ Passive Read/Write LABELS

See EMS for Application Specific Labels – LRP-L90140

* Proximity to metal, CRT devices and other sources of electromagnetic radiation may affect the range of the Antenna.

Available Models

Model	Description
LRP-L5555	Passive Read/Write RFID Label, 55 × 55mm, 48 bytes
LRP-L4982	Passive Read/Write RFID Label, 49 × 82mm, 48 bytes
LRP-L2666	Passive Read/Write RFID Label, 26 × 66mm, 48 bytes
LRP-L90140	Passive Read/Write RFID Label, 90 × 140mm, 48 bytes

Compatible Products

Model	Description
LRP820-04	Long-Range Conveyor Reader/Writer
LRP830-04	Long-Range DeviceNet Conveyor Reader/Writer
LRP820-08	Long-Range Reader/Writer
LRP830-08	Long-Range DeviceNet Reader/Writer
LRP820-10	Tunnel Antenna with Controller (for use with LRP-L90140 Label only)
LRP830-10	DeviceNet Tunnel Antenna with Controller (for use with LRP-L90140 Label only)

ESCORT MEMORY SYSTEMS
A DATALOGIC GROUP COMPANY

Passive Read/Write Radio Frequency Identification (RFID)
Typical & Guaranteed Read/Write Ranges

(inches/mm)*

Antennas		Tags		
		LRP820-08 / LRP830-08	LRP820-04 / LRP830-04 without metal	LRP820-04 / LRP830-04 with metal
LRP125(HT)	Typ.	8.00/203	3.00/76	2.50/64
	Guar.	7.00/178	2.25/57	2.00/51
LRP250(HT)	Typ.	17.00/432	8.50/216	7.00/178
	Guar.	15.00/381	7.50/191	6.00/152
LRP250HT-FLX	Typ.	17.00/432	8.50/216	7.00/178
	Guar.	15.00/381	7.50/191	6.00/152
LRP-P125	Typ.	8.00/203	3.00/76	2.50/64
	Guar.	7.00/178	2.25/57	2.00/51
LRP-P3858	Typ.	17.00/432	8.50/216	7.00/178
	Guar.	15.00/381	7.50/191	6.00/152
LRP-P5050	Typ.	17.00/432	8.50/216	7.00/178
	Guar.	15.00/381	7.50/191	6.00/152
LRP-L5555	Typ.	17.00/432	8.50/216	7.00/178
	Guar.	15.00/381	7.50/191	6.00/152
LRP-L4982	Typ.	17.00/432	8.50/216	7.00/178
	Guar.	15.00/381	7.50/191	6.00/152
LRP-L2666	Typ.	16.00/406	7.00/178	6.00/152
	Guar.	13.00/330	6.00/152	5.00/127
LRP-L90140	Typ.	25.00/635	12.00/305	9.00/229
	Guar.	22.00/559	11.00/279	8.00/203

*Proximity to metal, CRT devices and other sources of electromagnetic radiation may affect the range of the Antenna.