

Image not to scale
Colour may vary

Electric lock interface with EOL resistors and diode protection.

- 1) Typical Termination
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1) Typical Termination

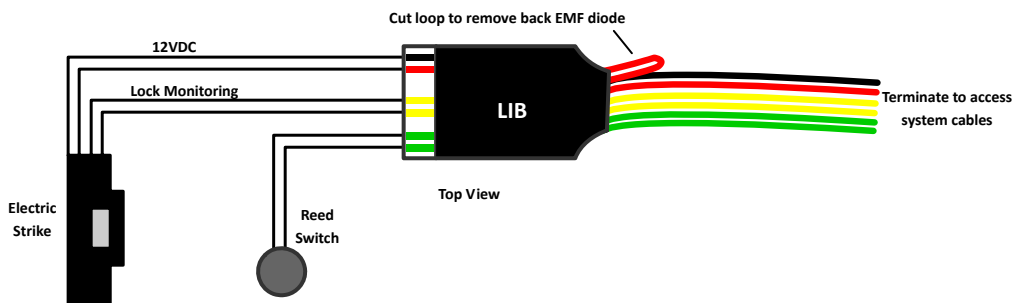


Fig:1 Typical Termination

2) Cable Termination

Connect the LIB to the system cabling via the LIB fly lead, taking care to observe correct polarity on the power circuit (red/black). If the lock does not require back EMF protection cut the red link loop. Make sure the loop is cut just below the heat shrink in such a manner that it cannot short circuit on the LIB or other metal surface.

The yellow and green pairs from the fly lead are connected to pre-built EOL resistor networks and have corresponding inputs on the LIB marked in yellow and green. There is no need to observe polarity on the EOL connections.

3) Lock Termination

The lock termination side of the LIB uses a simple push in connector that has a coloured sticker identifying the terminals. Devices such as electric strikes and reed switches often come with pre-stripped fly leads. Connection is as simple as pushing the stripped end of the wire from the lock into the appropriate input on the LIB, depending on the quality of the wire a small terminal driver may be required to open the clamp to accept the wire.

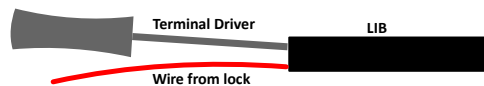


Fig:2 Wire installation and removal

Devices that don't have fly leads can be used with the LIB by making your own quick connection using hook up wire. (See technical data for correct wire sizes). 5-8mm of insulation should be stripped from the hook up wire for the best connection.

4) Lock Replacement

The lock wires can be removed from the LIB by simply inserting a 2mm slotted terminal driver into the slot above the termination and then pulling the wire free. Reverse the procedure to install the new lock. (see fig:2)

5) Connection to Auto Doors, Gates, or Roller Shutters.

The LIB can be used to interface devices not requiring lock power. The onboard EOL resistor networks can be used for typical alarms from auto door controllers or gate reed switches. The LIB red/black terminals can be used as a simple connection for a voltage free contact or to power an interface relay. Disconnect the back EMF diode if not required.

6) Technical Data & Ratings

Input voltage	0-32V DC
Max current on power circuit	3A
EOL resistor networks	2
Board size	30 L X 15 W X 8 H (mm)
Fly lead length	130mm

Connection	Description	Conductor Size
(P1) RB, YY, GG	Lock connection	.2mm ² - .5mm ² (min – max) 26 -20 AWG
Fly Lead Red/Black	Power Connection	.33mm ² - (22AWG)
Fly Lead Yellow/Yellow	Resistor EOL Network A	.33mm ² - (22AWG)
Fly Lead Green/Green	Resistor EOL Network B	.33mm ² - (22AWG)

7) Ordering Codes & Identification

The LIB can be ordered with different EOL resistors to suit common access control systems. Common values are listed below; board colours are used to aid identification. Contact Jack Fuse to enquire about custom values to suit your system.

LIB-01	Lock Interface Board with 1KR EOL resistors	Black
LIB-47	Lock Interface Board with 4K7R EOL resistors	Yellow
LIB-10	Lock Interface Board with 10KR EOL resistors	Red
LIB-68	Lock Interface Board with 2K2-6K8 EOL resistors	Blue
ST2	2mm Slotted terminal driver to suit LIB connector	

Accessories

Jack Fuse also has an expandable fuse module with built in fire trip relay (PP8FR) that adds hassle free power protection, distribution and fire interface to any access control system.

More Information

For complete install notes, data sheets and technical support please visit www.jackfuse.com

