

Proximity/iButton Reader Interface

ELK-MA290

Magic Module Series

The Proximity/iButton Reader Interface allows the ELK-MM443(s) Magic Module to accept Proximity Readers (26 bit Wiegand format) or Dallas iButton™ touchkeys

APPLICATION

The Proximity/iButton Reader Interface can be used with one or two Proximity Readers (26 bit Wiegand output), one or two iButton Touchkey probes, or one of each. This enables the Magic Module to be used as an economical access controller for one to two doors, or for a single door with anti-passback or time-attendance functions. The Proximity/iButton Reader Interface connects to the Magic Module through an 8 conductor modular cable(included).

FEATURES

- Interfaces with one or two readers.
- Compatible Readers include:
 - Many popular brands of Proximity Readers that provide a 26 bit Wiegand output.
 - iButton Touchkey Probe(ELK-MA110).
- Operating Power supplied from Magic Module.
- Compact easy to mount enclosure.
- Simple Installation.
- 8-conductor modular connection to Magic Module.
- Visual Power Indicator LED.
- Lifetime Limited Warranty.

SPECIFICATIONS

- Operating Voltage: 13.8 Volts D.C. (supplied from ELK-MM443(S)).
- Current draw: approx. 70 mA typical per Proximity Reader.
- Enclosure: ABS Plastic, 4.5" x 3" x 1.2".
- Data Connect Cable: 6ft (included).

Features and Specifications subject to change without notice.

REQUIRES (not included)

- ELK-MM443(s) Magic Module programmed to utilize the Readers.
- ELK-MK485 Programmers Kit with PC Software (typically only one required per company).
- PC running Windows 95/98 (for programming the Magic Module).
- Proximity Reader(s) or iButton Touchkey probe(s).

LIFETIME LIMITED WARRANTY

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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. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. 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 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:

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

For more information contact your local Distributor or: ELK Products, Inc. - PO Box 100 - 3266 US Hwy. 70 West - Hildebran, NC, - 28637 - USA - 828-397-4200

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ELK-MA290 INSTALLATION INSTRUCTIONS

1. Mount the Proximity/iButton Reader Interface near the Magic Module that will be used for this application. Remove the cover from the Reader Interface.
2. For a Proximity Reader, run a 4 conductor 22 AWG cable from the Interface to any 26 bit Wiegand reader(refer to Wiegand reader instructions for max length).
For a Dallas iButton, run a 2 conductor twisted 22 AWG cable from the Interface to any iButton reader(650 feet max). Refer to table 1 & 2 for jumper settings and wiring connections. Use shielded in noisy environments.
3. Connect the Quick Connect Data Cable from the J5 jack on the MM443(s) to the J1 jack on the Reader Interface. Replace the plastic cover on the Reader Interface.
Note: When using the Reader Interface, a PSC05 X-10 power line interface module can not be connected to the ELK-MM443(s).
4. When properly programmed and power applied, the unique serial number can be read by the ELK-MM443(s) just by holding a Wiegand prox card near the Wiegand reader or by touching the metal part of the iButton key to the iButton reader probe.

Table 1

Reader 1 input type	Reader 2 input type	JP1	JP2
Proximity	Proximity	Wiegand	Wiegand
Proximity	Dallas iButton	Wiegand	Dallas
Dallas iButton	Proximity	Dallas	Wiegand
Dallas iButton	Dallas iButton	Dallas	Dallas

Table 2

Reader Type	Reader Terminal Wiring			
	Neg	D1	D0	+12V
Proximity	Black Neg	White data1	Green data0	Red +12vdc
Dallas iButton	Black	Grey	-	-

