xAC Access Controller v4 - LF

Specifications	
Operating Voltage	+12vdc
Operating Current	80 to 120mA
Operating Temperature	-40° to 70° C
Supported Card Type	EM4100
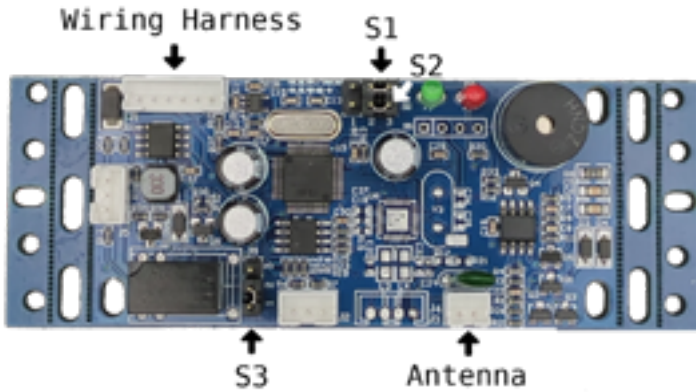
Connector Pin-out		
#	*Color*	*Pin*
1	Red	+12vdc
2	Black	Ground
3	Yellow	NO - Normally Open -> Relay Out
4	White	COM - Common -> Relay Input
5	Green	NC - Normally Closed -> Relay Out
6	Blue	Push-to-Exit

Operation

When the board is powered, it waits for an authorized or master tag to be scanned. While waiting, the common (COM) is connected to the normally closed (NC) pin. When an authorized tag is scanned, the NC pin is disconnected and the normally open (NO) pin is connected for the duration set by jumper S1. If the Push-to-Exit pin is shorted to ground, the relay will also actuate.

Jumper Settings		
Jumper	*Position*	*Function*
S1	1-2	Relay Delay 5 Seconds
	2-3	Relay Delay 1 Second
S2	1-2	Setup
	2-3	Normal Operation
S3	1-2	Relay Common - Hot
	2-3	Relay Common - Ground

Relay Wiring

Unlike the previous two versions, this board can switch a hot or ground to a load. Set S3 accordingly and connect COM to the appropriate source. To drive a solenoid or electric strike, connect it to the NO lead and the device's other side to the remaining polarity.

Setup

To assign master tags (and clear all authorized tags), ensure the board is powered off, set jumper S2 to position 1-2, and power on the board. The first tag scanned will be "master add" and the second will be "master remove." Power off the board, set S2 to 2-3 and power it back on.

Management

To add authorized tags, scan the "master add" tag followed by any tags you want authorized then scan "master add" again to exit. To remove a tag, follow the above using the "master remove" tag. To clear all authorized tags without removing the master tags, scan "master remove," "master add," and then "master remove" again.