

## EXTERNAL ELECTROMAGNETS

### FEATURES

- Built for external use
- All electromagnets are monitored and can send a signal to show if the gate is open or closed
- Used for secure electronic locking, can be incorporated with any access control system

### PRODUCT OPTIONS

EMS270	270kg holding force
EMS545	545kg holding force

## SURFACE FIT ELECTROMAGNETS

### ELECTRO-MAGNETIC GATE LOCK

#### A. 12VDC Input :

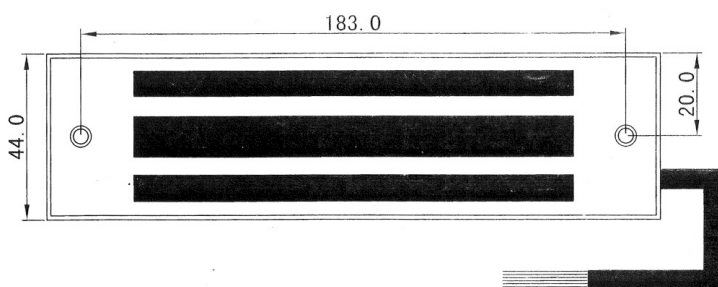
- Connect the red/black wires, green/orange wires and connect to 12V source.

#### B. 24VDC Input :

- Short black/green wire and connect red/orange ones to 24V source.

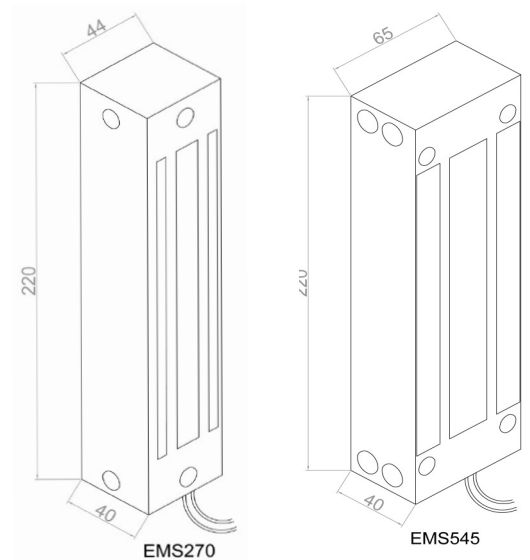
#### C. Contacts :

- Reed switch dry contacts are rated 0.5Amp at 30VDC/AC for safe operation, do not exceed this rating.
- If you require a normally open switch, connect the wires from the system to brown wire and yellow wire of Magnet.
- If you require a normally closed switch, connect the wires from the system to brown wire and blue wire of Magnet.



### Specification Sheet

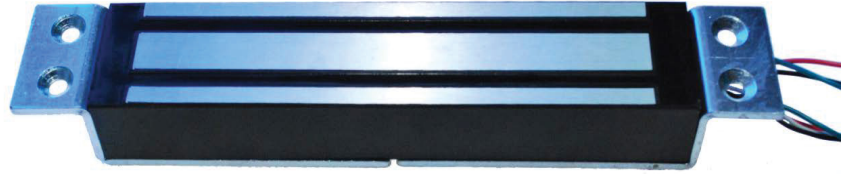
## EMS



12V	24V	LOCK STATUS SENSOR (REED SW.)
Red Black + Green - Orange	+ Red Black - Green - Orange	Blue NO Yellow NO Brown COM

## FLUSH FIT ELECTROMAGNETS

### PRODUCT OPTIONS



EMM250	250kg holding force
--------	---------------------

#### 12VDC Input :

- Connect the ground(-) lead from a 12VDC power source to black wire of PCB.
- Connect the positive(+) lead from a 12VDC power source to red wire of PCB.
- Set jumper for 12VDC operation.

#### 24VDC Input :

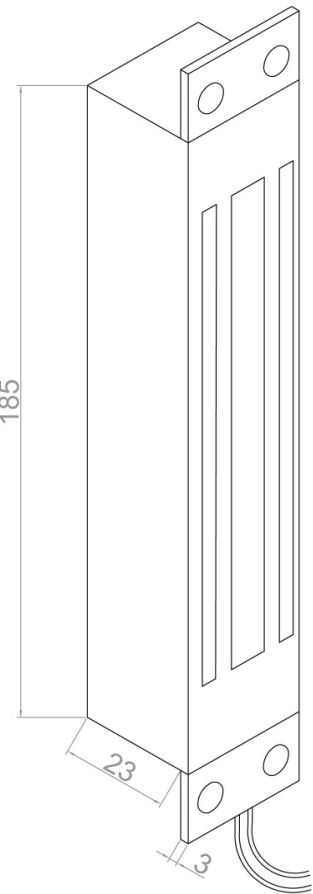
- Connect the ground(-) lead from a 24VDC power source to black wire of PCB.
- Connect the positive(+) lead from a 24VDC power source to red wire of PCB.
- Set jumper for 24VDC operation.

#### Contacts :

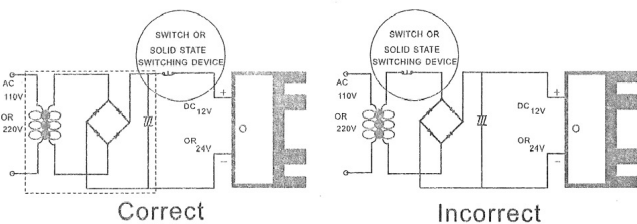
- Reed switch dry contacts are rated 3W(max switching contact 0.25A) at 30VDC/AC for safe operation, Do not exceed this rating.
- If you require a normally open switch, connect the wires from the system to black wire and green wire of PCB.
- If you require a normally closed switch, connect the wires from the system to black wire and red wire of PCB.

#### Important!

- If power switch is not wired between DC source voltage and magnet, it will take a longer time to de-energize the magnet simulating residual magnetism. (see below)



EMM250



### Printed Circuit Board Schematic

