# Electrical Instructions SDGi Micro Power Lock (MPL)

## Introduction

The MPL is a unique 680Kg holding force lock designed for manual and automatic doors with the PCB remotely located. If the lock(s) are to be used in conjunction with an automatic door then the PCB is generally secured in the hollow aluminium transom or the automatic door operator. If the lock(s) are to be used on a manual door then the PCB is generally secured within the PSU for the access control system or similar housing and then the cables between the door and this housing/PCB will be made off with small connectors (not supplied)

## MPL lock wiring (to PCB)

- MPL Power Input:   9VDC, **RED** (+); **BLACK** (-)
- The MPL uses a step-down DC-DC convertor that takes an input at a higher voltage (12v/24v) and converts it into a lower voltage (9v).  The output voltage is selected by moving the included jumper to the required voltage.
- The jumper MUST be in the 9V position and is glued in place so please do not move

**Diagram**



MOV – connected across +/-.

This resistor **must** be used on all DFA 127s
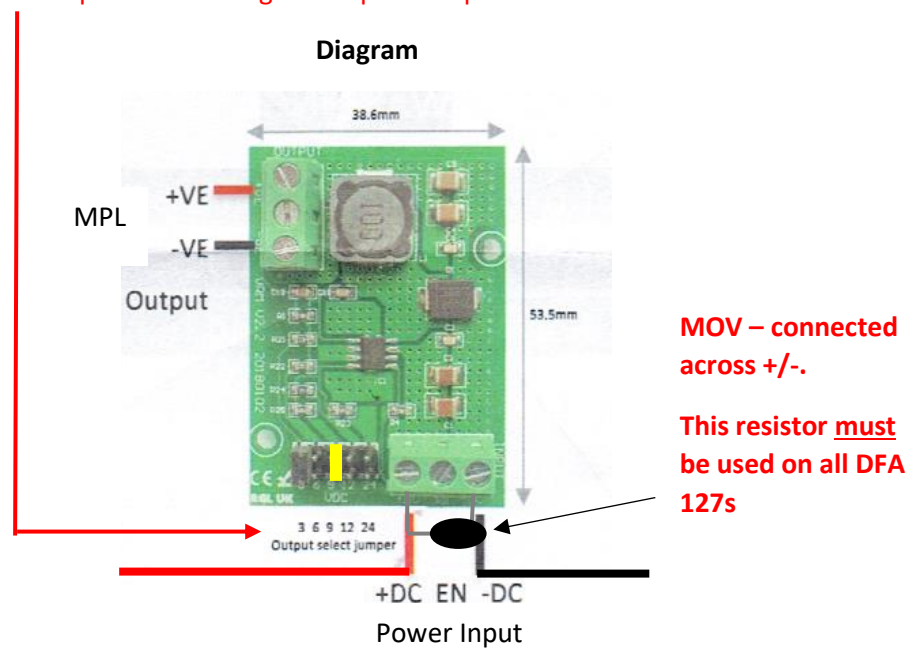
Power Input

## Notes

1. Connect the input the power source to the input and the red/black MPL Lock wires to the output.
2. If the output needs to be switched off whist the input is on, connect a switch across the EN and -DC terminals at the Power Input.
3. Do not change the voltage selection jumper while the module is being powered.
4. **DO NOT** power the MPL direct to the operator. The PCB must be used otherwise the MPL will burn out and all warranties will be void.