

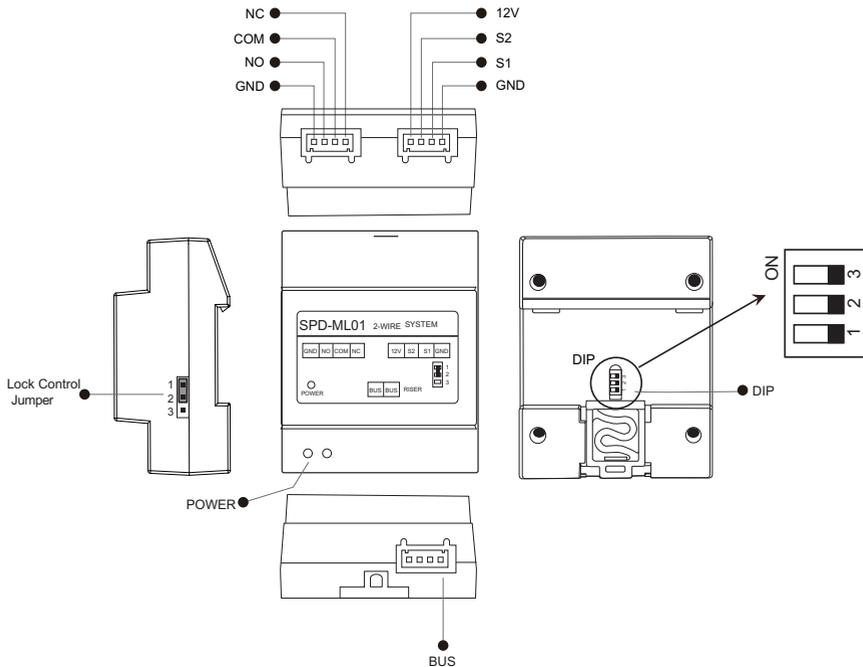
Please read this manual carefully before using this product , keep it safe for future use. We reserve the right to modify the specification in this manual at any time without notice.

1. About the SPD-ML01 Unit

The relay actuator SPD-ML01 is an accessory device designed for 2-wire systems to enable control of door locks . Features as follows:

- Note that the factory default is lock control mode.
- Allows to opening of gates, door locks .
- Supports high power-consumption locks using an external PSU.
- Configurable timing for unlock output.
- Supports exit button when in lock control mode to release the lock(timed).

2. Parts and Name



12V: +12V power output for fail secure strike, max 12vdc 450mA.

S2: The port for unlock DIP settings

S1: Exit button contact input. Short this contact to GND to unlock.

GND: The common Ground of the other 3 contacts: S1, S2 and +12V.

NC: Normally-closed contact .

COM: Common contact of the unlock.

NO: Normally-open contact.

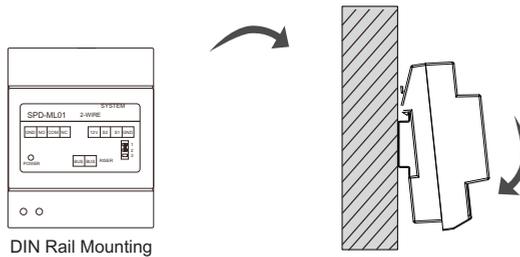
Lock Control Jumper: To select the lock type: see section 4,5.

POWER: LED Indicator, on when connected to live Bus.

Bus: Connection for the 2 wire bus line, no polarity.

DIP :Used for setting the address of the ML01 and configuring work mode.

3. Unit Mounting



4. How to set the unlock delay time

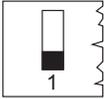
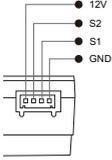
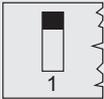
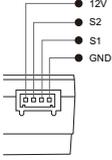
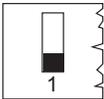
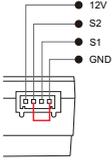
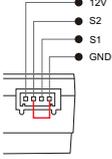
The lock time have: 0s, 5s, 10, 15s for your optional. It's better that setting up 0s for Electronic lock ; 5-15s for E-magnetic locks or other kinds of locks.

DIP Switch	Bit State Optional	Unlock delay time(Second)
	2-OFF ,3-OFF	1s
	2-ON, 3-OFF	5s
	2-OFF ,3-ON	10s
	2-ON, 3-ON	15s

5. DIP Switch Setting

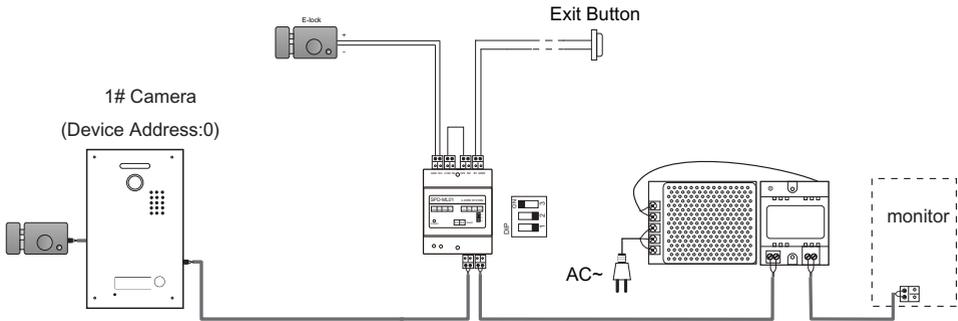
The DIP switch on the rear of the ML01 is used to set the address. This setting need according the DIP switch and S2 port to program. Please refer to the following tab for more detailed information regarding the DIP and S2 settings.

DIP settings for lock.

DIP	Bit State Optional	S2 State Optional	Description
<p>ON</p> 	1-OFF	 <p>S2 won't connect to GND</p>	Applies to door station 1 & lock 1
<p>ON</p> 	1-ON	 <p>S2 won't connect to GND</p>	Applies to door station 2 & lock 2
<p>ON</p> 	1-OFF	 <p>S2 connects to GND with cable</p>	Applies to door station 3 & lock 3
<p>ON</p> 	1-ON	 <p>S2 connects to GND with cable</p>	Applies to door station 4 & lock 4

5.1 Internally powered lock connection - Suitable for Power-on-to-unlock/Fail Safe strikes.

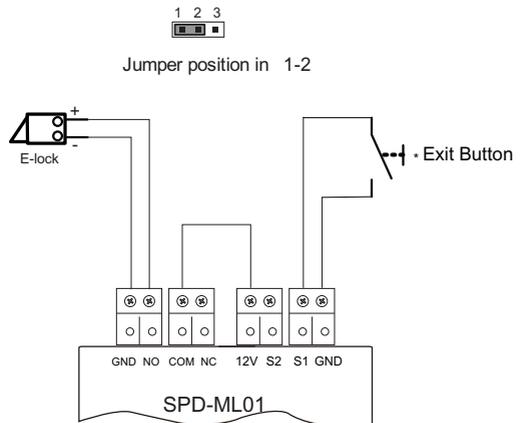
SPD-ML01 controls the a second lock for door station 1



SPD-ML01 connect lock

Note:

1. When SPD-ML01 is connected to an E-magnetic lock, the jumper position is 1-2. And internal power supply is 12V out.
2. When SPD-ML01 is connected to an Electronic lock, the jumper position is 2-3. And internal power supply is 12V out.

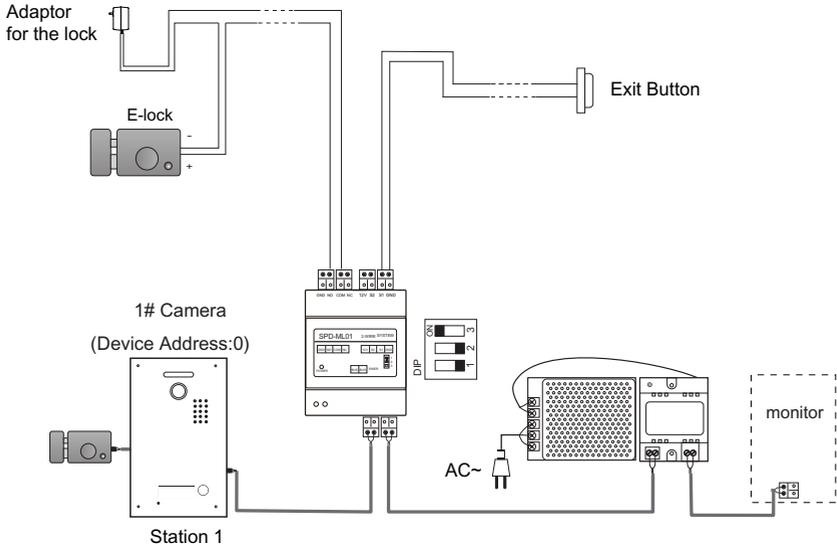


5.2 External Power Supply powered lock connection

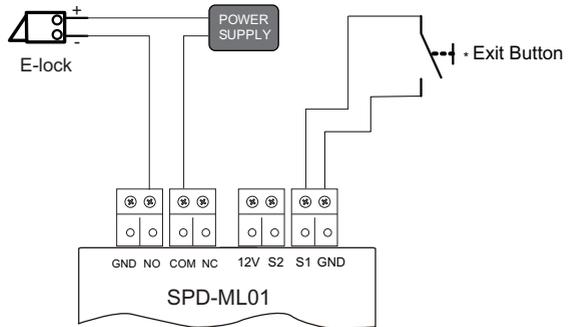
If need the external power supply to the lock, the jumper must be taken off before connecting.

A: Power-on-to-unlock(fail-secure) lock :

SPD-ML01 controlling the second lock of door

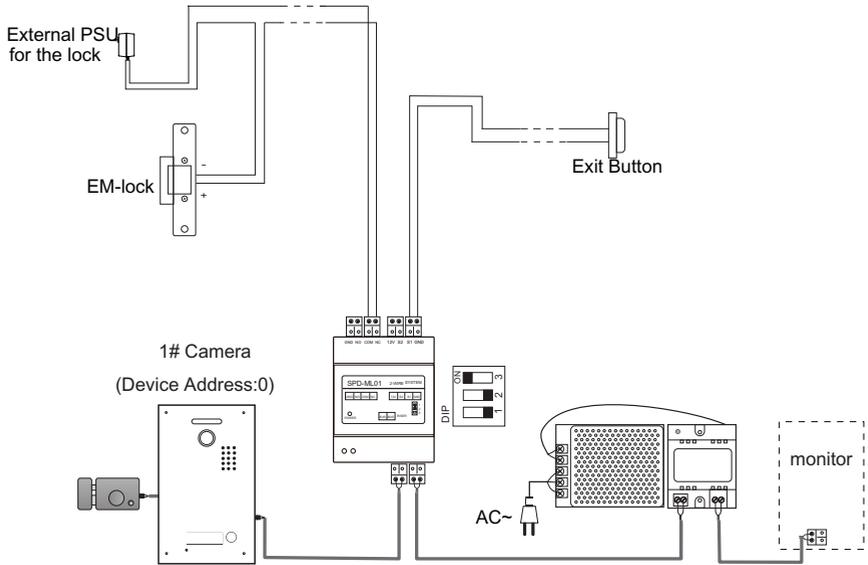


SPD-ML01 lock connection:

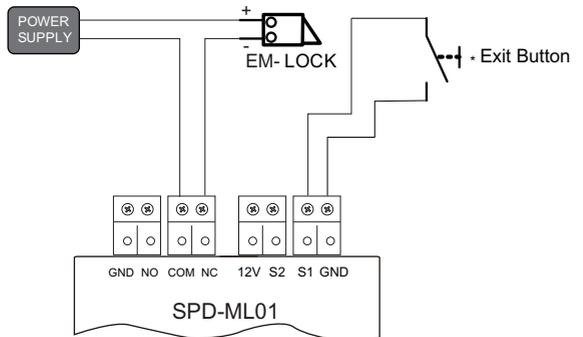


B: Power-off-to-unlock(fail-safe) lock:

SPD-ML01 controlling the second lock of door station 1

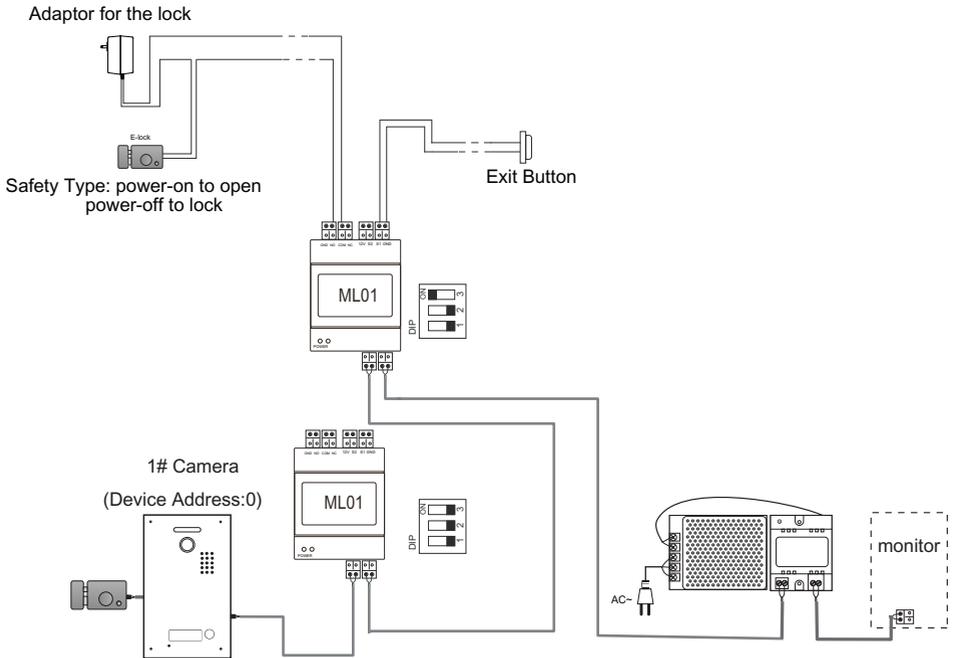


SPD-ML01 lock connection:



6. Connecting 2 x SPD-ML01s

In a single system, two SPD-ML01 units can be connected to control a gate/lock and a light if required



7. Specification

- Power Supply : DC24V;
- Unlocking Time: 1~15s(Default 1s);
- Lock Power supply: 12Vdc, 450mA(Internal Power);
- Working Temperature: -10°C~+40°C;
- Dimension: 89(H)×71(W)×45(D)mm.

Note: SPD-ML01 only connect on the Bus line, if multiple doors need to connect on the video distributor.

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