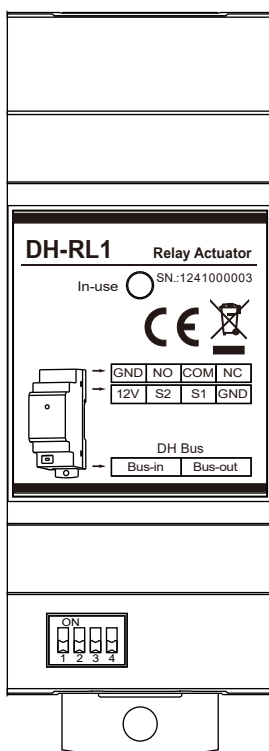


DH-RL1

Relay actuator

User Manual



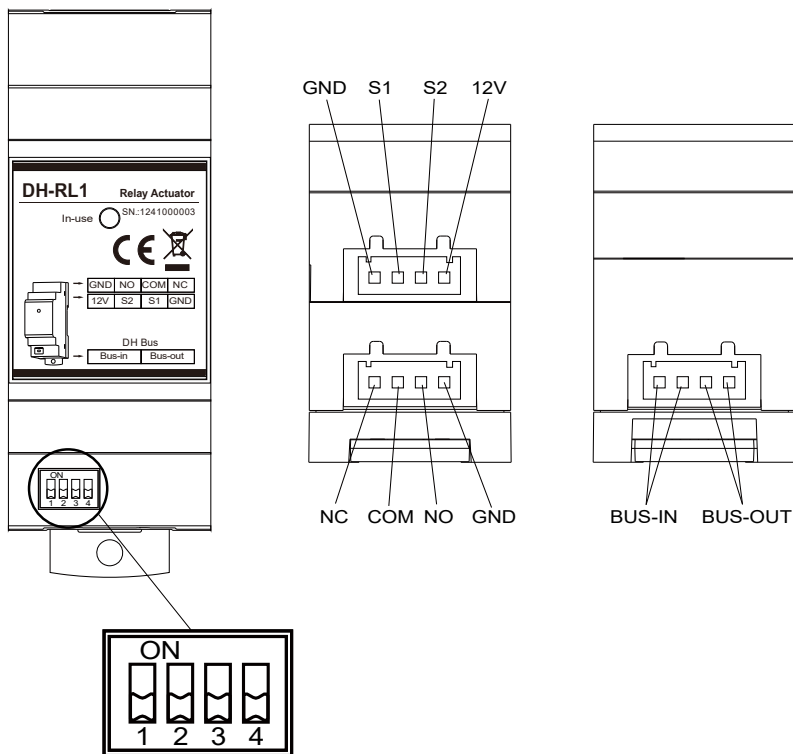
Please read this manual carefully before using the product you purchase, and keep it well for future use. We reserve the right to modify the specification in this manual at any time without notice.

1.About DH-RL1 Unit

Description:

The relay actuator DH-RL1 is a accessory device designed for DH system to control door locks or lights.

2. Parts and Name



+12V:12V power output. Can be used to power the lock.

S2:Reserved.

S1:Exit button contact. Short this contact and the GND to unlock or control light.

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

NC:The normally-closed contact to COM.

COM: The common contact of the unlock/light relay.

NO: The normally-open contact to COM.

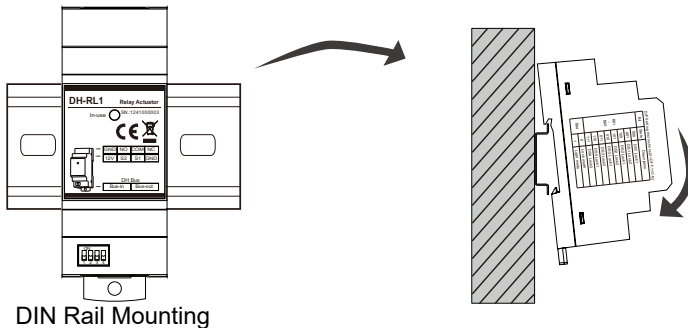
Lock Control Jumper: To select the lock type: see section 4.3, 4.4.

IN-USE:Unlock/light indicator, it will light up when unlock(or turn on the light).

Bus:Connect to the bus line, no polarity.

DIP :Used for setting the address of the RL1.

3. Unit Mounting



4. Lock Control Mode

In lock control mode, the DH-RL1 allows to open gate door locks; Support high power-consumption lock; With configurable unlock timed output; Support exit control button.

4.1 How to set the unlock time

In lock control mode:

- 1). Power-on within 5 seconds, short-circuit S2 up to 3 seconds, the IN-USE indicator flash.
- 2). Short-circuit S1 up to 3 seconds, and the IN-USE indicator always light.

3). Short-circuit again S2, meanwhile, the time of short-circuit equal to unlock time. (the IN-USE indicator flashes once per second, Less than two seconds by one second calculation; The maximum setting time is 30 seconds.)

4). After S2 released, saved unlock time, and exit the setting.

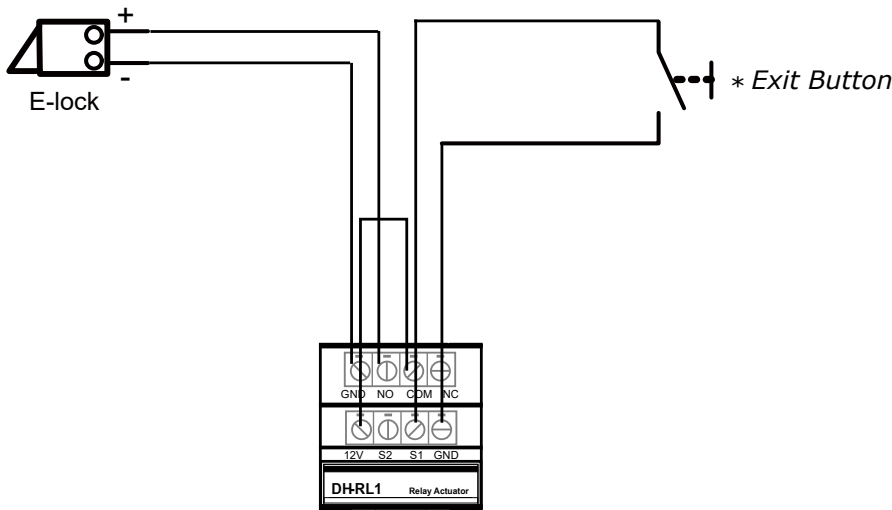
4.2 DIP setting for lock

The DIP switch in the back of the panel is used to set the address of the RL1. Please refer to the followings for more detail informations about the DIP settings:

DIP	Bit State	Descriptions
	OFF,OFF,OFF,OFF	Applies to door station1 & lock 1
	OFF,OFF,ON,OFF	Applies to door station1 & lock 2
	ON,OFF,OFF,OFF	Applies to door station2 & lock 1
	ON,OFF,ON,OFF	Applies to door station2 & lock 2
	OFF,ON,OFF,OFF	Applies to door station3 & lock 1
	OFF,ON,ON,OFF	Applies to door station3 & lock 2
	ON,ON,OFF,OFF	Applies to door station4 & lock 1
	ON,ON,ON,OFF	Applies to door station4 & lock 2

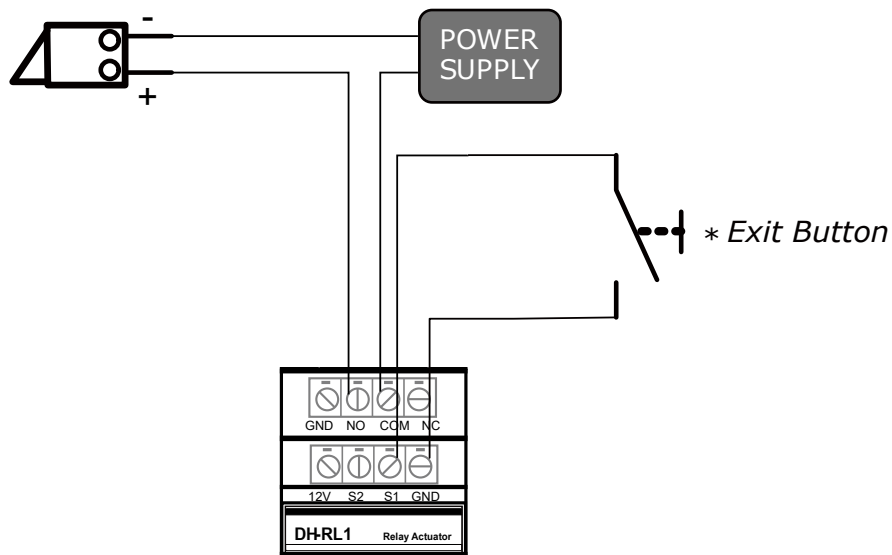
4.3 Internal powered lock connection(only suitable for Power-on-to-unlock type)

DH-RL1 connect lock



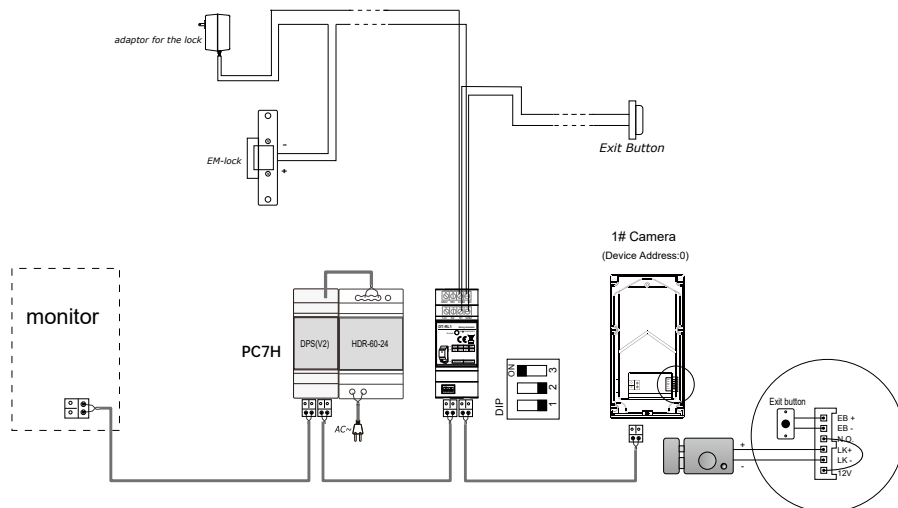
4.4 External Power Supply powered lock connection

DH-RL1 connect lock

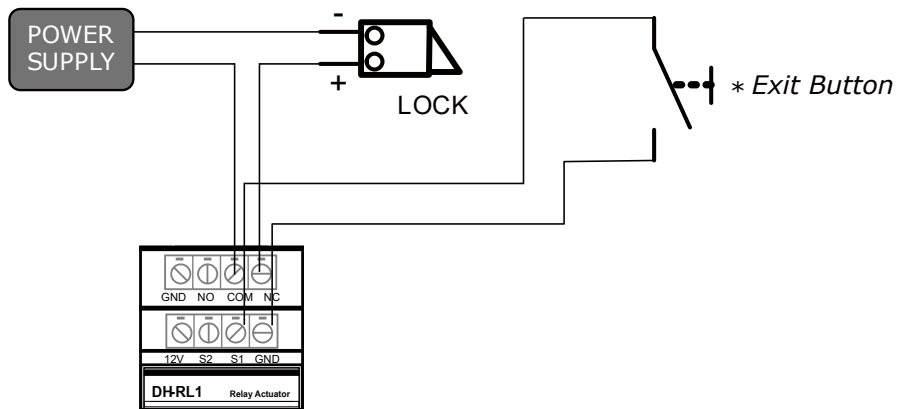


B. Power-off-to-unlock type:

DH-RL1 control the second lock of door station 1



DH-RL1 connect lock



5. Specification

- Power Supply : DC22~30V;
- Unlocking Time: 1~99s;
- Lock Power supply: 12Vdc, 300mA(Internal Power);
- Working Temperature: -20°C~+55°C;
- Dimension: 90.0×35.0×58.4mm.

The design and specifications can be changed without notice to the user. Right to interpret and copyright of this manual are preserved.