



CDVI

Security to Access



2EASY



CDV-RLC

2EASY 2-wire Relay Module



EN

1] PRODUCT PRESENTATION

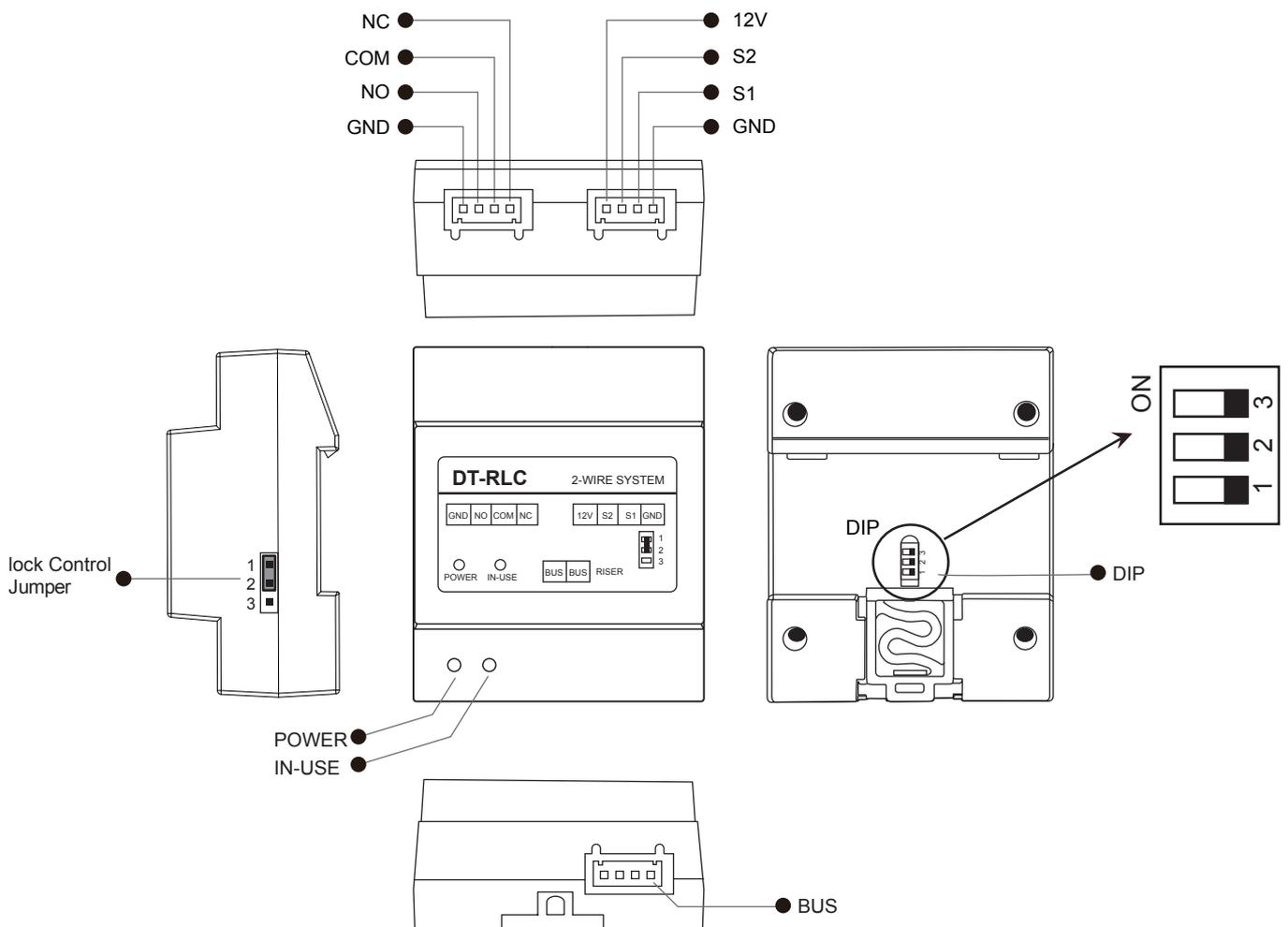
Product Description

The relay actuator CDV-RLC is an accessory device designed for 2EASY Video Entry systems to enable control of door locks or lights.

Available Features:

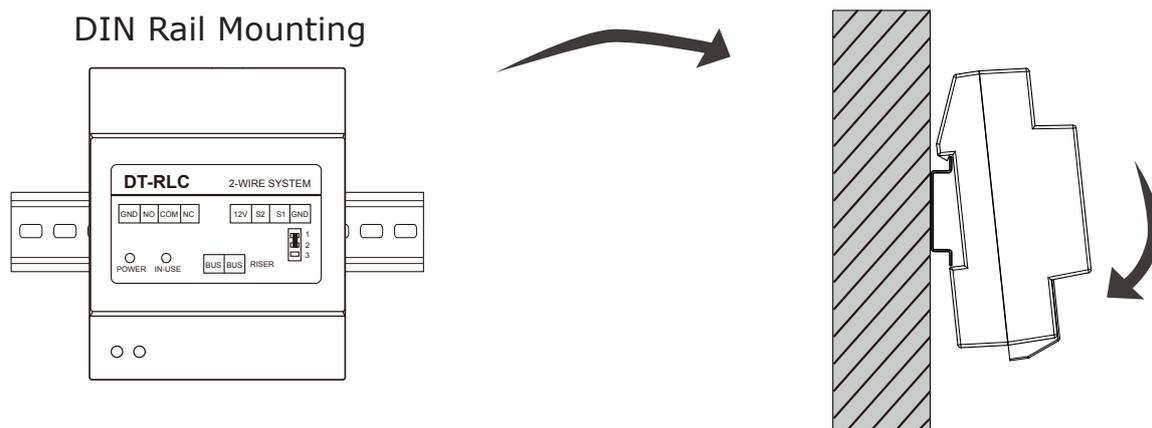
- 2 control modes: Lock control or light control.
- Allows the opening of gates, door locks or the control of lights.
- Supports high power-consumption locks using an external PSU.
- Adjustable timing for unlock output and light control output.
- Supports exit button when in lock control mode to release the lock (timed).
- Allows exit button input to control the light (timed) when in light control mode.

Parts and Functions



- **12V:** +12V power output for fail secure strikes, max 12vdc 450mA.
- **S2:** Reserved.
- **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/light relay.
- **NO:** Normally-open contact.
- **Lock Control Jumper:** To select the lock type see section 5, 6.
- **POWER:** LED Indicator, on when connected to live Bus.
- **IN-USE:** Unlock/Light indicator, on when unlock is triggered.
- **BUS:** Connection for the 2-wire BUS line, no polarity.
- **DIP:** Used for setting the address of the RLC and configuring work mode.

2] MOUNTING



3] CONTROL MODES

Note: Factory default set to Lock Control.

To change to *Light Control* mode please follow the steps below:

- 1) Set DIP1 = ON, DIP2 = ON, DIP3 = OFF, short circuit exit button (S1 and GND). The CDV-RLC will power-on to activate the setting mode;
- 2) In setting status, struck repeatedly DIP1 four times to switch between control modes:
 1. When the IN-USE indicator flashes once, it means the system will enter the light control mode.
 2. When the IN-USE indicator flashes twice, it means the system will enter the lock control mode.
- 3) When the setting is complete, it will automatically restart.

Note: The setting mode lasts 5 seconds. With over five seconds of non operation, the device will exit the setting mode automatically.

4] LOCK CONTROL MODE

In lock control mode, the CDV-RLC allows the following features:

- Open gate door locks
- Support high power-consumption lock with configurable unlock timed output
- Support exit button control

Setting the Unlock Delay Time

1. To enter relay time programming mode, connect the live bus: Within 5 seconds short-circuit S2 to GND for 3 seconds, the IN-USE (blue) indicator will flash.
NOTE: If the unit has been previously connected to the BUS, disconnect it and allow time for the power LED to extinguish before powering up.
2. Short-circuit S1 to GND for 3 seconds, the IN-USE (blue) indicator will light permanently.
3. Short-circuit S2 to GND again, keep the short in place for the length of the relay time required, the IN-USE (blue) indicator flashes once per second for each second of relay time. (the max setting time is 30 seconds)
4. Remove the short between S2 and GND to save the setting and exit programming mode.

DIP Switch Settings

The DIP switch on the rear of the CDV-RLC is used to set the address.

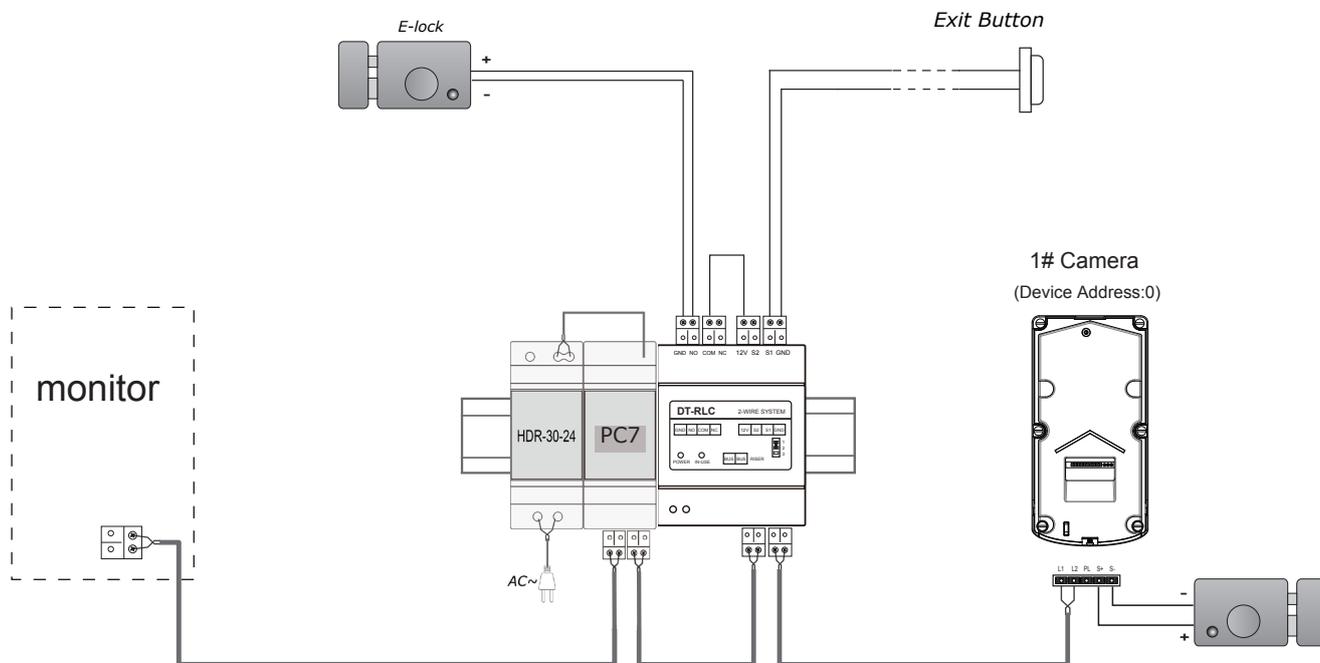
Refer to the following table for more detailed information regarding the DIP settings:

DIP	Bit State	Description
	OFF, OFF, OFF	Applies to door station 1 & lock 1
	OFF, OFF, ON	Applies to door station 1 & lock 2
	ON, OFF, OFF	Applies to door station 2 & lock 1
	ON, OFF, ON	Applies to door station 2 & lock 2
	OFF, ON, OFF	Applies to door station 3 & lock 1
	OFF, ON, ON	Applies to door station 3 & lock 2
	ON, ON, OFF	Applies to door station 4 & lock 1
	ON, ON, ON	Applies to door station 4 & lock 2

Internal Power Supply Lock Wiring

Note: Suitable for fail safe (power on to unlock) strikes

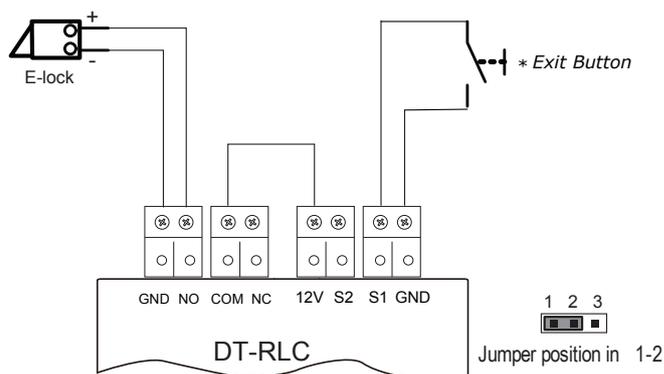
CDV-RLC controls the second lock for door station 1



CDV-RLC lock connection

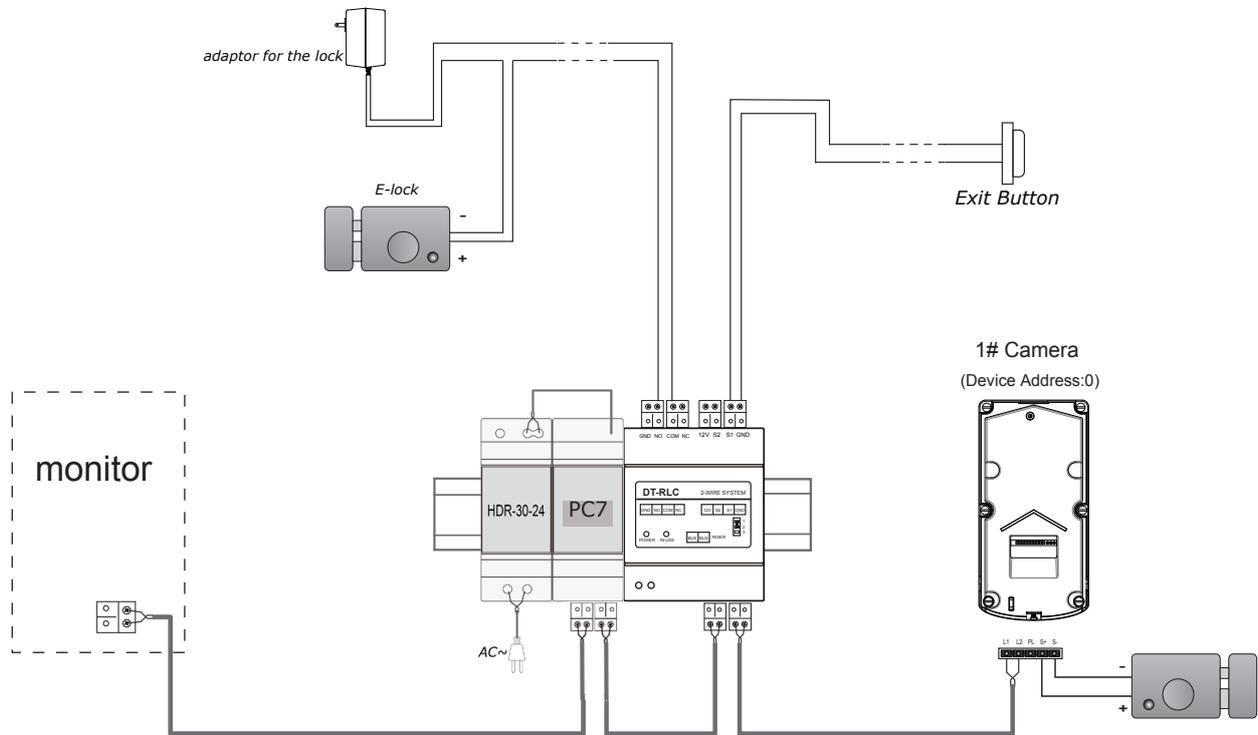
Notes:

1. When the CDV-RLC is connected to an electric lock, the jumper position is 1-2.
2. When the CDV-RLC is connected to an electromagnetic lock, the jumper position is 2-3.

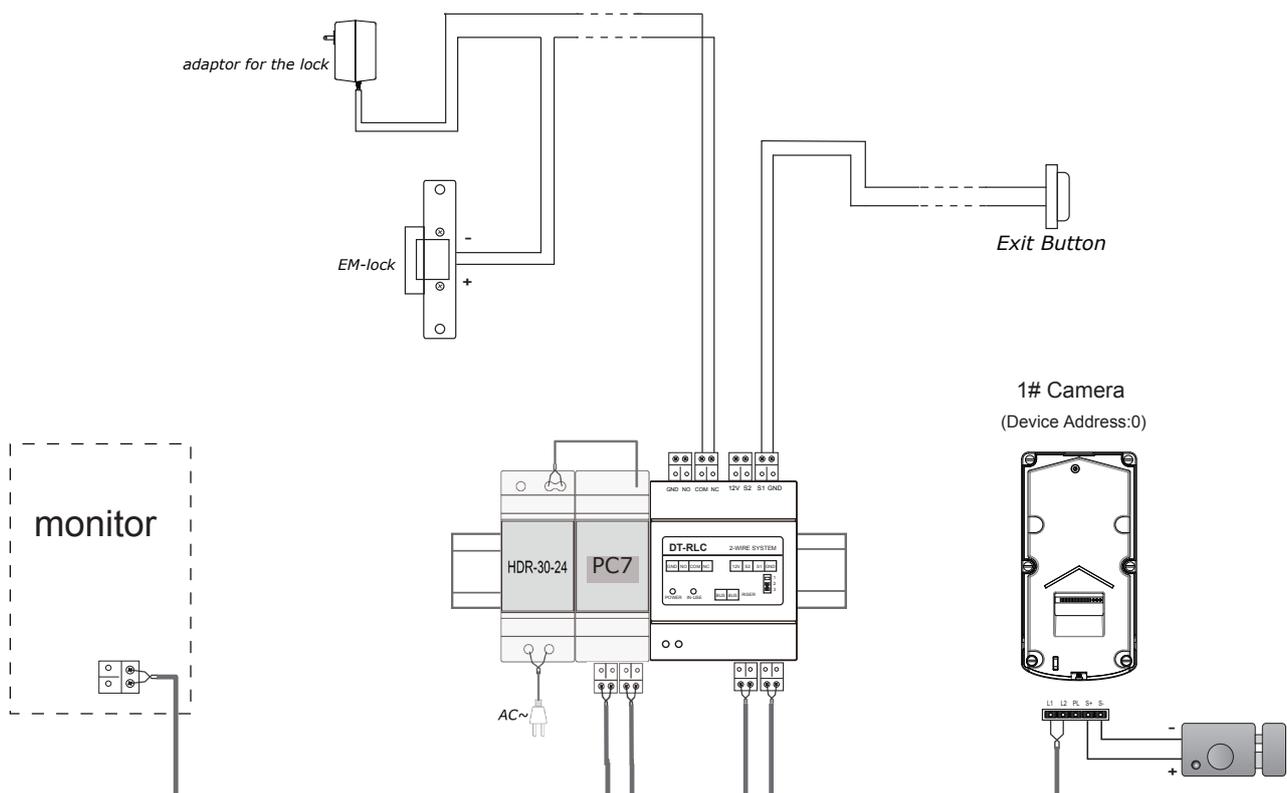


External Power Supply Lock Wiring

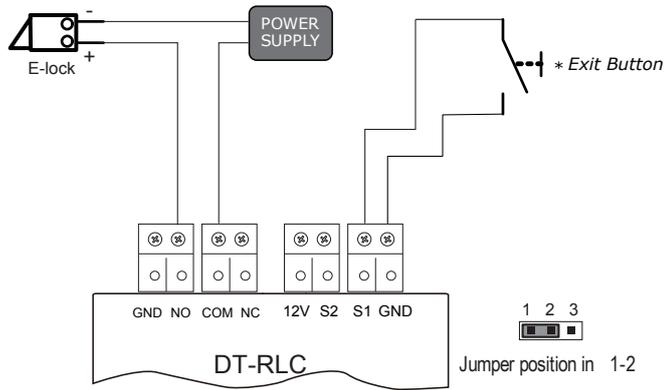
Fail Secure Lock - CDV-RLC controls second door lock of door station 1



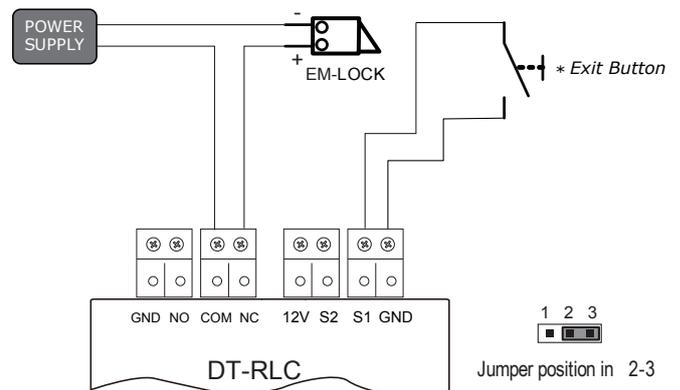
Fail Safe Lock - CDV-RLC controls second door lock of door station 1



Fail Secure Lock - CDV-RLC Connection



Fail Safe Lock - CDV-RLC Connection



5] LIGHT CONTROL MODE

In light control mode, the CDV-RLC allows the following features:

- Adjustable timed lighting
- Support exit button control

Setting the Light Working Time

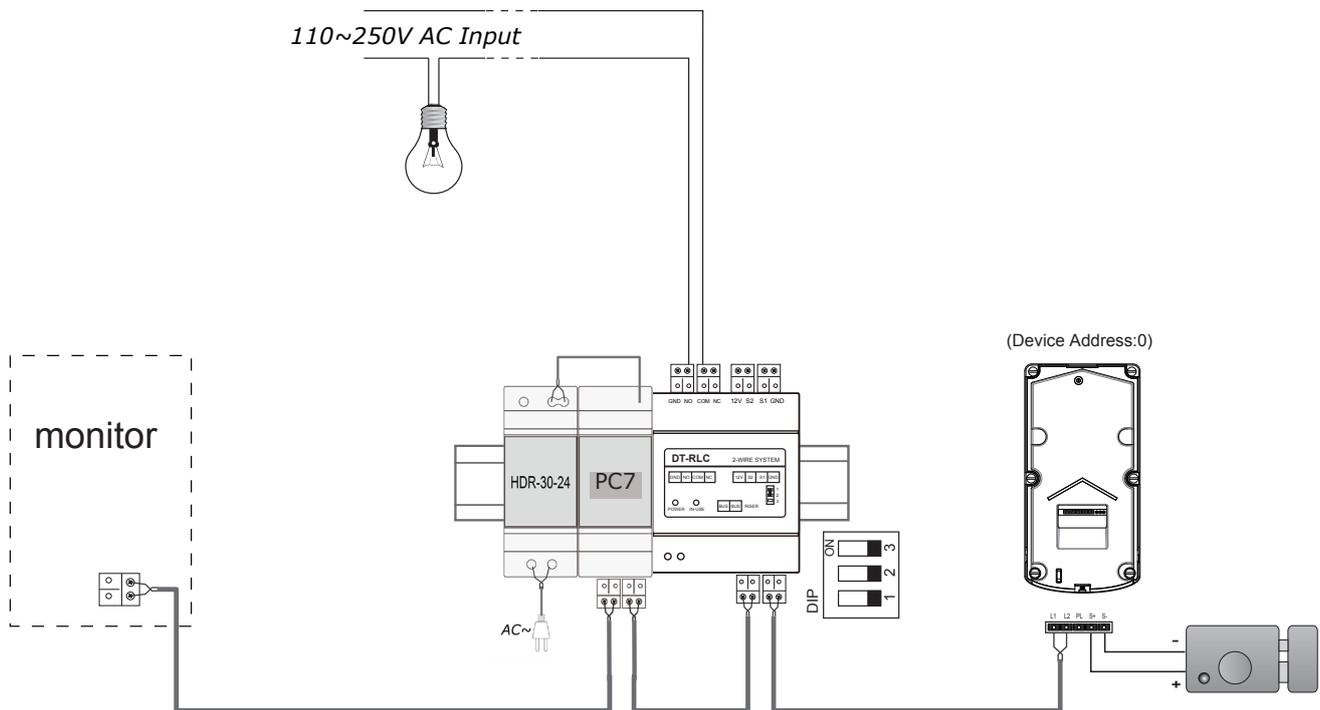
- 1) Power-on and within 5 seconds short-circuit S2 to GND, the IN-USE LED will flash.
- 2) Now Short-circuit S1 to GND for 3 seconds, the IN-USE LED will light permanently.
- 3) Short S2 to GND again, at this point the IN-USE LED will flash. meanwhile, the time of short-circuit 1 seconds equal to light working time 30 seconds. Each flash is equal to 30 second of light operation time. Maximum time setting is 900secs.
- 4) When S2 is released, the light activation time will be saved and exit the setting.

DIP Switch Settings

DIP	Bit State	Description
	OFF, OFF, OFF	Set to the first CDV-RLC
	OFF, OFF, ON	Set to the second CDV-RLC
	ON, OFF, OFF	Set to the third CDV-RLC
	ON, OFF, ON	Set to the fourth CDV-RLC
	OFF, ON, OFF	Set to the fifth CDV-RLC

	OFF, ON, ON	Set to the sixth CDV-RLC
	ON, ON, OFF	Set to the seventh CDV-RLC
	ON, ON, ON	Set to the eighth CDV-RLC

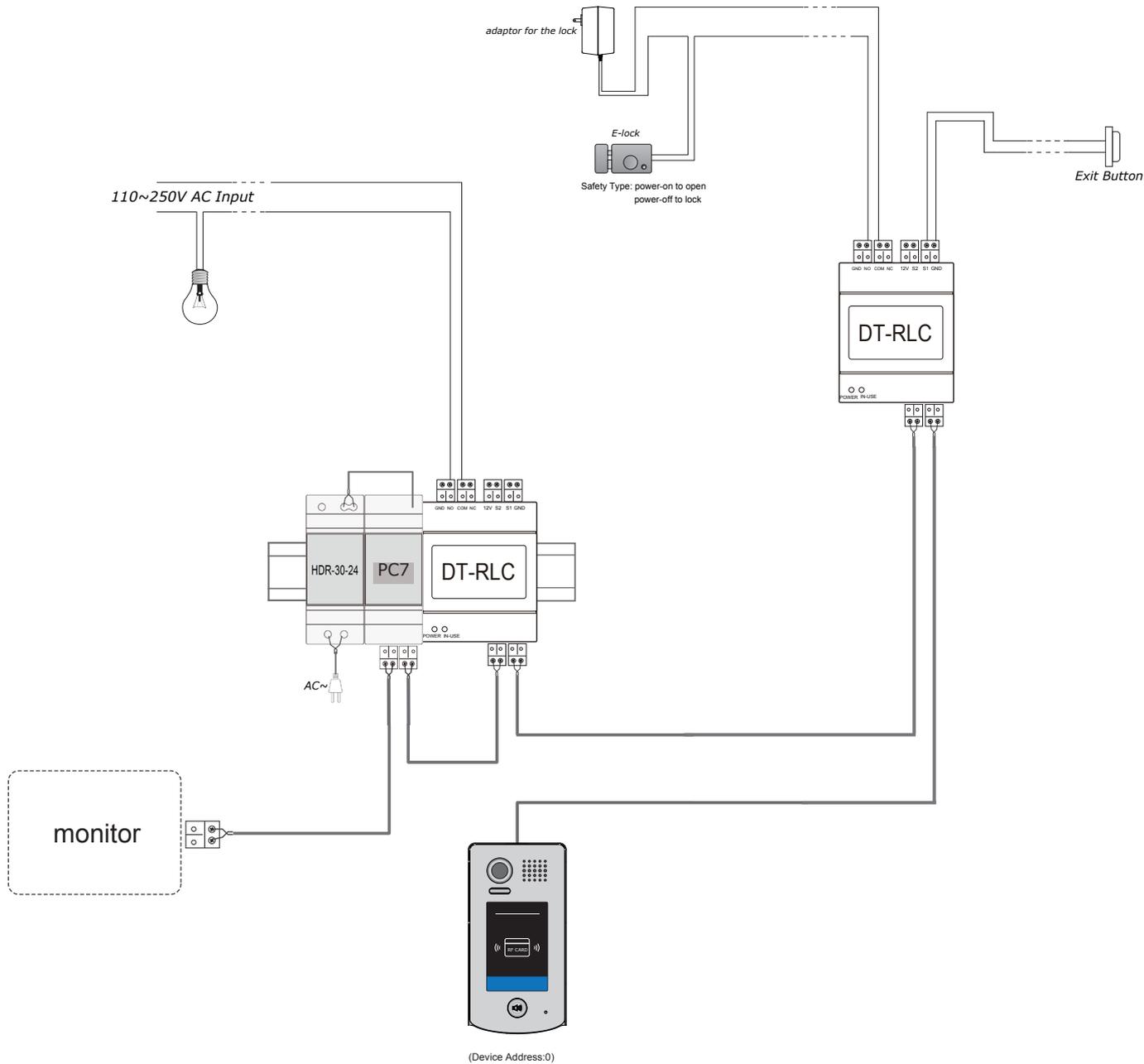
CDV-RLC Light Control Wiring



6] PRODUCT SPECIFICATIONS

Feature	Description
Power Supply	24 Vdc
Unlocking Time	1-30s (Default 1s)
Lock Power Supply	12 Vdc, 450mA (Internal Power)
Operating Temperature	-10°C to +40°C
Dimensions	89(H)×71(W)×45(D) mm

5] SYSTEM WIRING WITH 2 X CDV-RLC





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