



eSSL EC10 Elevator Control System User Manual

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User Manual
EC10 & EX16 Quick Start Guide
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Installation Precautions

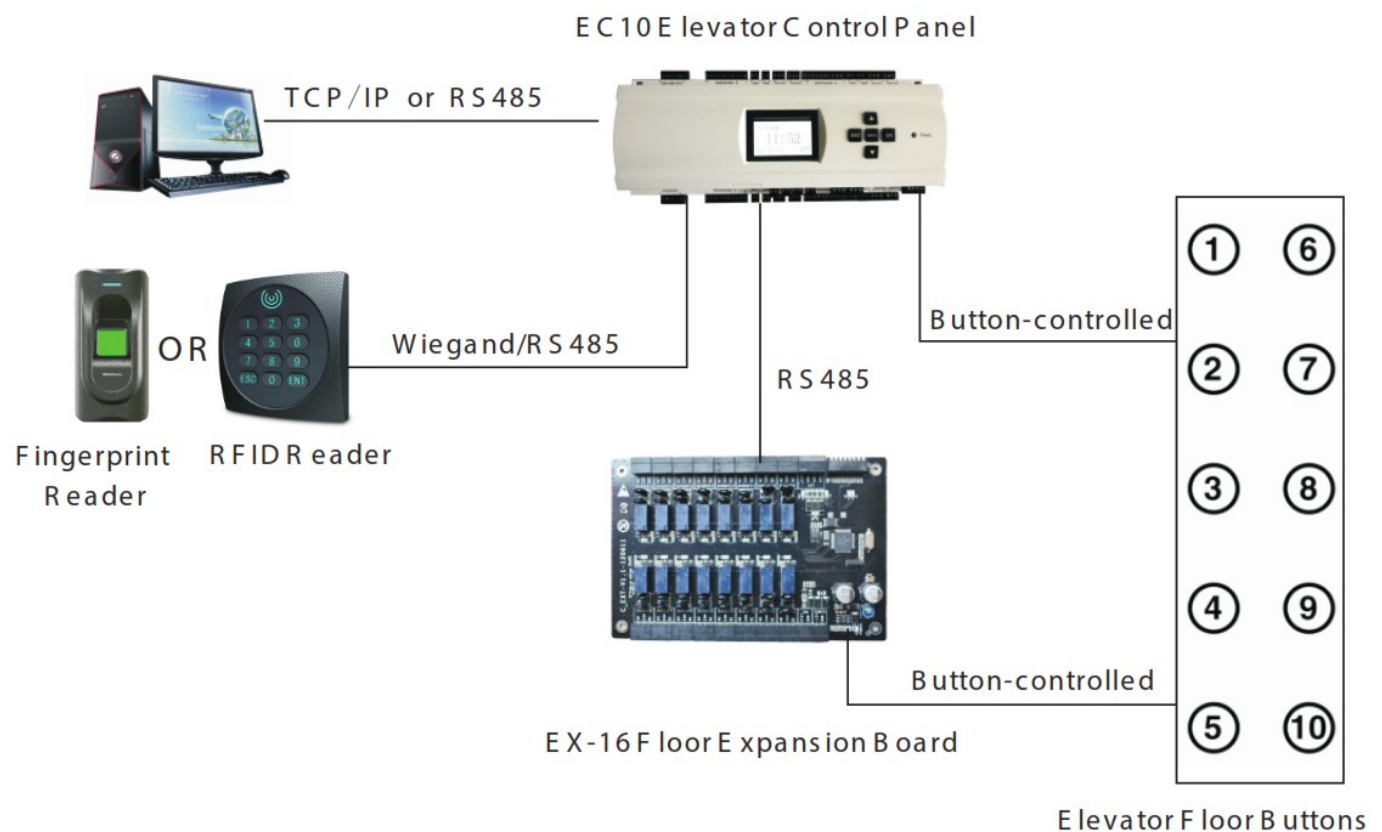


Pay attention to the following safety items. Mis-operations may cause human danger or equipment faults:



1. Before installation completes, do not power on the equipment or perform operations with electricity.
2. Used dedicated elevator ethernet cable to connect the elevator controller and computer.
Use 2 pin controller cable for the press button on each floor.
3. Install the card reader with a height of 1.2 to 1.4 meters.
4. Install the elevator main controller and expansion board on the elevator lift car.
5. Install the emergency button in the management center or under the elevator button.

System Introductions

The E C 10 prevents unauthorized elevator users from accessing pre-defined restricted floors in the building. The E C 10 (Elevator Control panel) controls access up to 10 floors. Also available is the E X 16 (Elevator Floor Expansion board) whic hallows for access control of up to 1 6 additional floors. A maximum three E X 16 boards can be daisy-c hained toge the rand collectively control access of up to 58 floors. In order to gain access to a desired floor, authorized users must first sent either a valid fingerprint and/or RF ID card when entering the elevator. For example, if an authorized user has access rights to only floor 3 and floor 10, the elevator will not move if that same user presses the elevator button for floor 4.

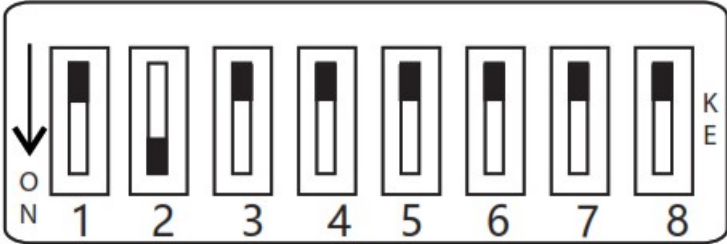
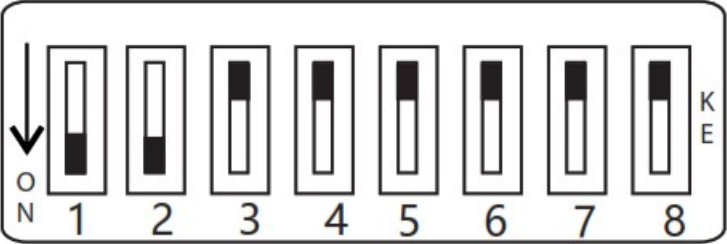
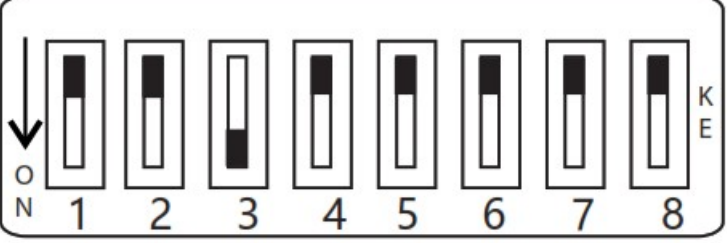


Technical Specifications

<p>E C 10 Technical Specificaton</p> 	<p>E X 16 Technical Specificati</p> 
<p>Floor button control relays: 1 0 Card capacity: 3 0,000 Fingerprint capacity: 3,000 Event capacity: 100,000 Power s upply: 12V DC 1A Communication: T C P / I P, R s 4 8 5 Supported floor expansion board: 3pcs</p>	<p>Floor button control relays:10 Communication to E C 10 p Power supply: 1 2V DC 1 A</p>

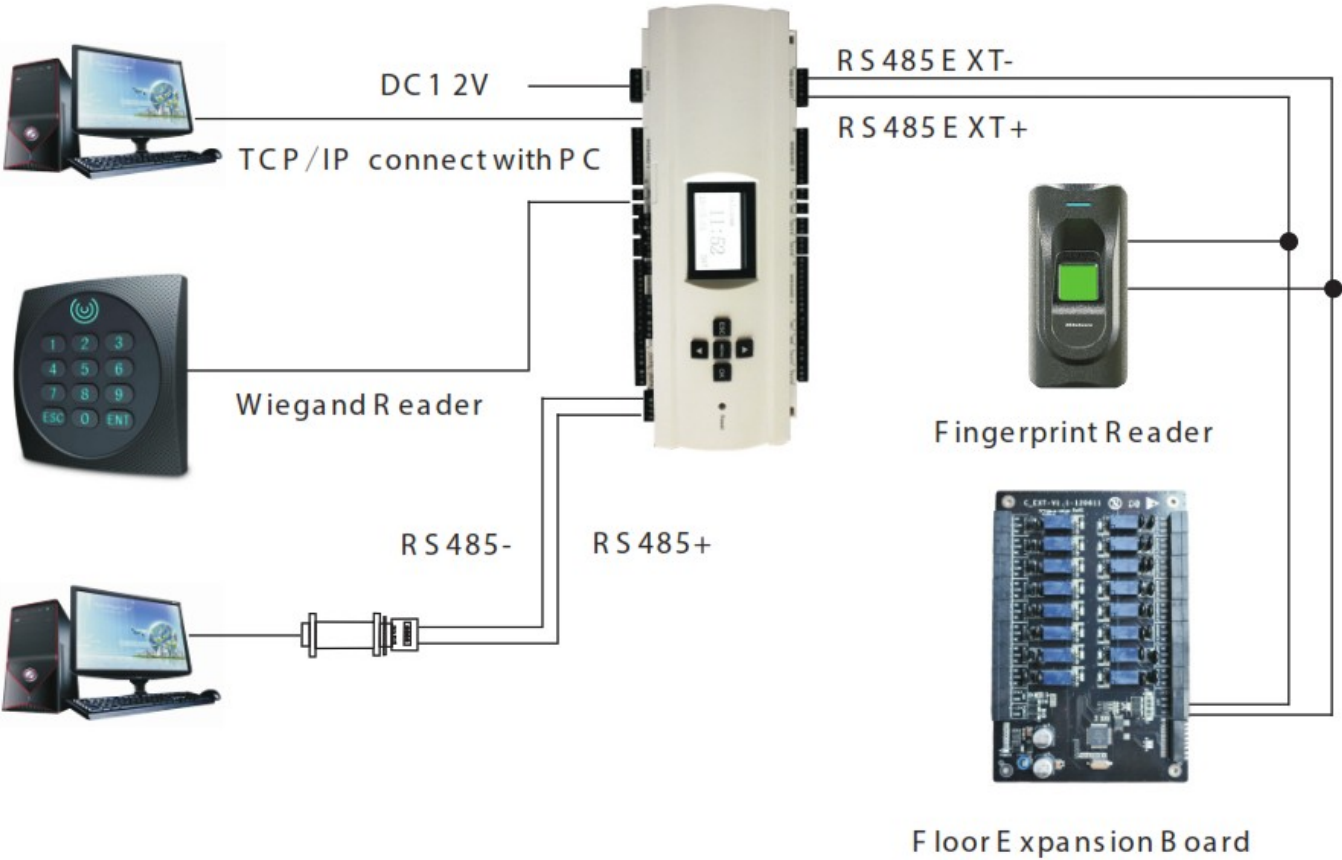
E X 16 D IP Switch Settings

DIP switches 2 -4 are used to set each E X 16 Floor Extension Board's unique device address using R S 485 communication. Please keep the E X 16 powered off before setting the device address. Each device address needs to be unique. See example below:

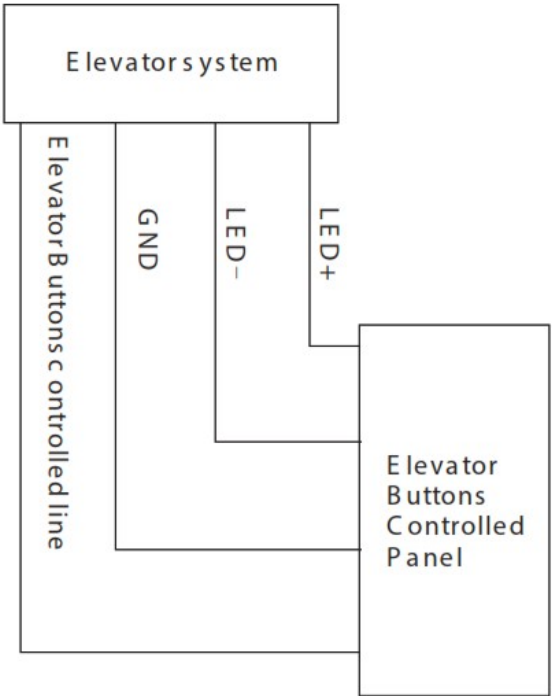
R S 485 Device address 2	
R S 485 Device address 3	
R S 485 Device adress 4	

Wiring an Elevator Control System

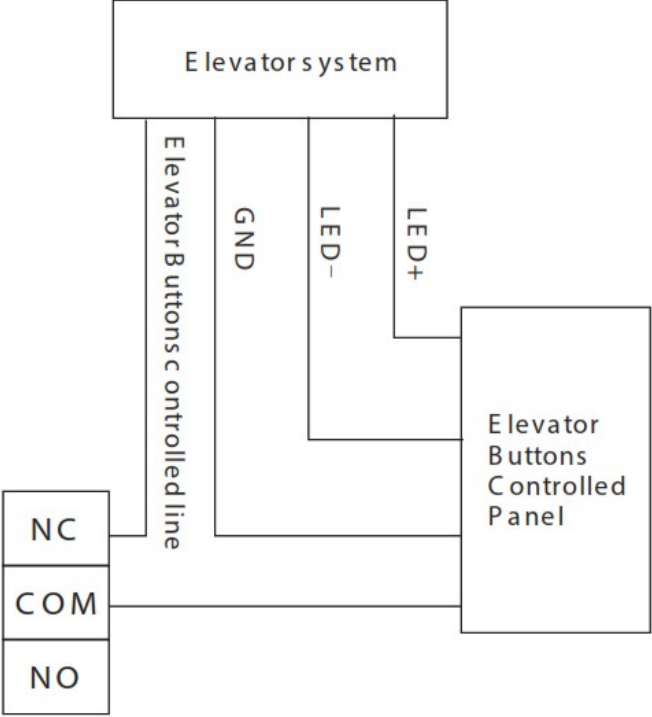
Elevator Control Panel



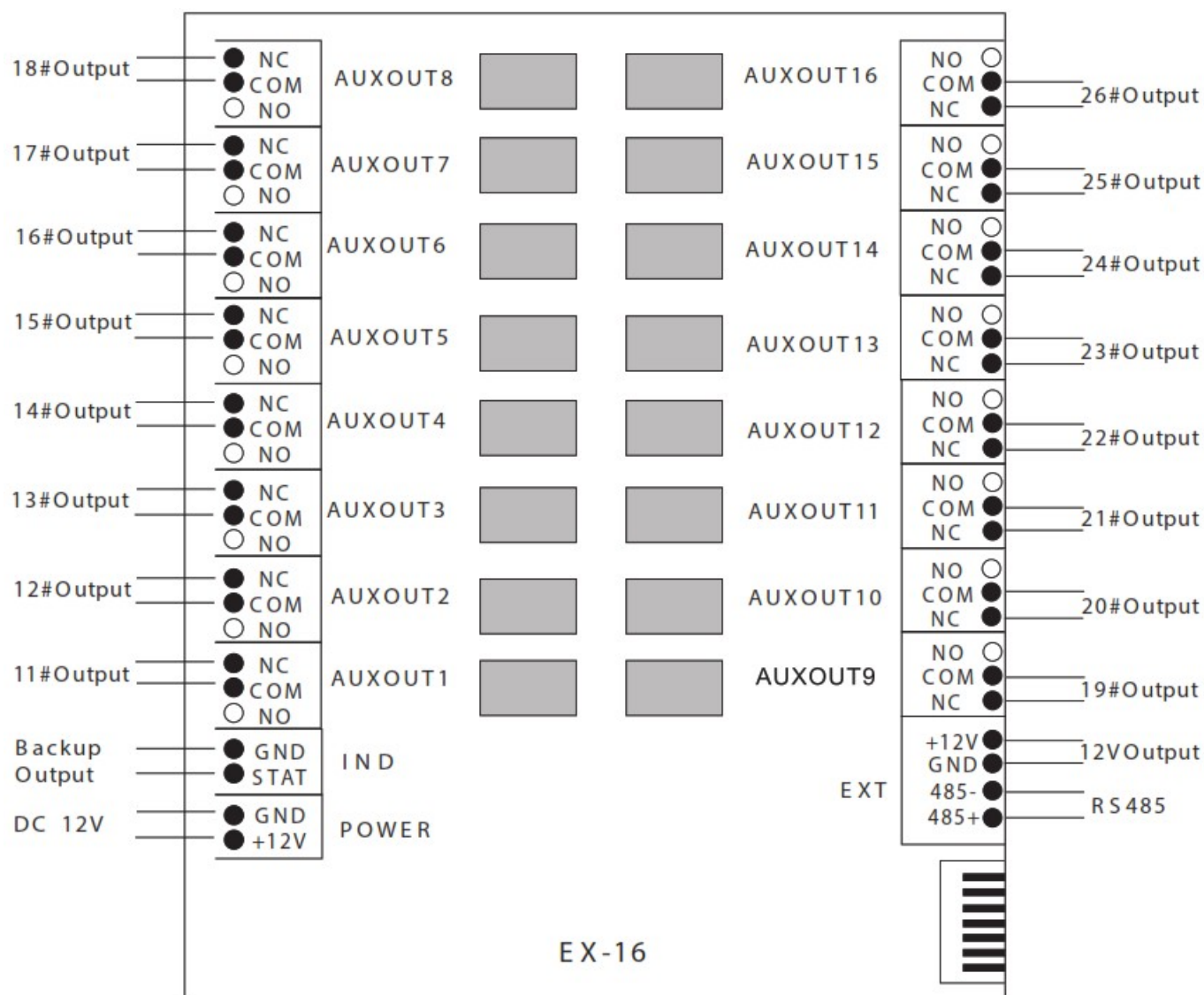
Typical Elevator Wiring Diagram



EC 10/EC 16 Elevator Wiring Diagram



EX 16 Elevator Wiring Diagram

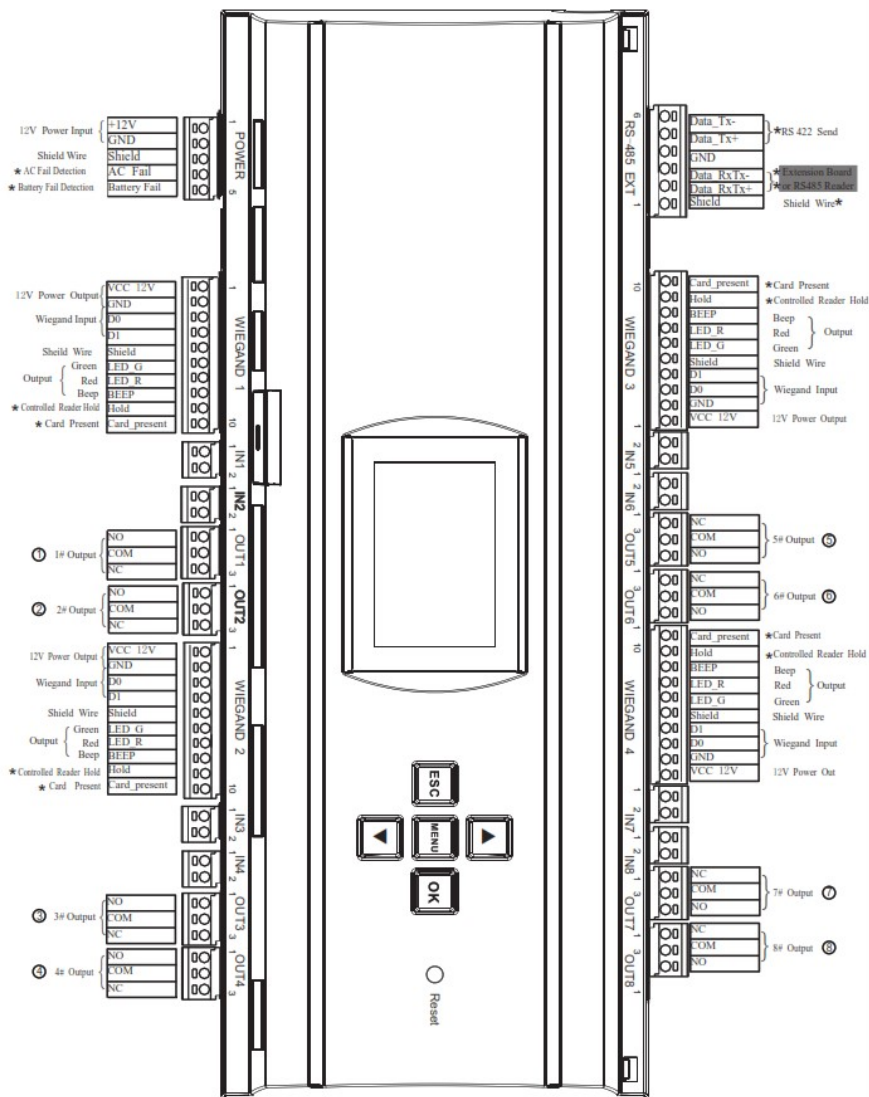


EC10 Wiring Terminals Connection

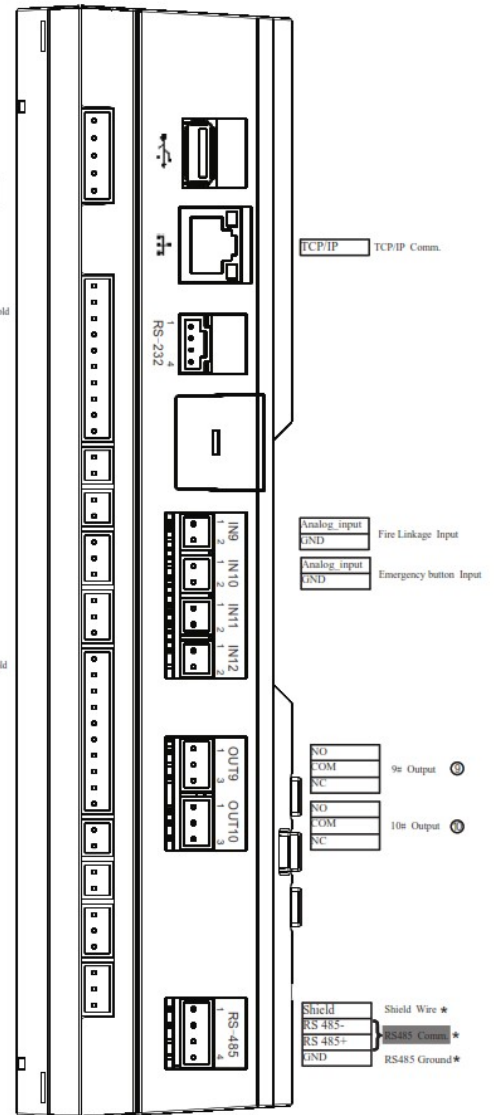
Notes:

1. The backup input is reserved for the elevator control system.
2. Fire linkage and emergency button function require no software settings. These functions are available when the hardware is installed.
3. GPRS, WIFI, and functions marked by * are optional. If these functions are required, contact our business representatives or pre-sale technical support.
4. " # " indicates floor, "1# output" indicates that it is connected to the first-floor button, the first expansion board is connected to the 11th-floor button.

Fr ont View



Fr ont Side View



Notice:

1. Open the elevator press button panel when connecting to the elevator button. Ask the supplier to provide the floor button control circuit. If the supplier can not provide the circuit, exclude the incorrect circuit one by one and ensure the correct connections.
2. EC10 connects to the computer using TCP/IP or RS485.
3. EC10 supports ZK fingerprint readers (model FR1200) and RFID card readers (model KR series).
4. EC10 controls access up to 10 floors , EX16 controls access up to 16 floors. An EC10 carries a maximum of 3 expansion boards. Total 58 floors can be controlled when combining EC10 with EX16.
5. The RS485 device address of the fingerprint reader (model FR1200) must be 1. The RS485 device address of the EX16 floor extension board must start from 2.
6. Wiegand reader can connect to the elevator main controller Wiegand 1#~ 4#.
7. IN9 functions as fire linkage signal input. When fire linkage signal works, elevator control system stops working and the elevator retains to original status. (Fire linkage must be passive dry contact signal)
8. IN10 functions as an emergency button. When it is pressed, the whole elevator is not controlled by elevator controller. At this moment, up and down buttons are available. When the emergency button is not pressed, the elevator retains to the original status.
9. 1 ~ 10 Output terminals connect to floor press button.



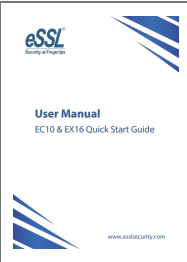
<http://goo.gl/E3YtKI>

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Documents / Resources

	<p>eSSL EC10 Elevator Control System [pdf] User Manual EC10, Elevator Control System, EC10 Elevator Control System</p>
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References

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