NETWORK TECHNOLOGIES INCORPORATED
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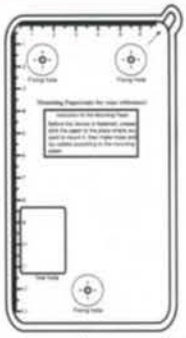
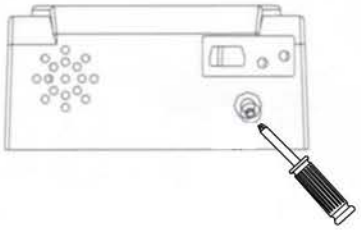
E-FACS
Fingerprint Access Control System

1.Equipment Installation



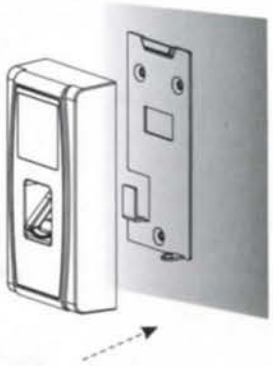
(1) Post the mounting template on the wall. Drill the holes according to the marks on the template (holes for screw and wiring).



(2) Remove the screw on the bottom of device.

(3) Take away the back cover.

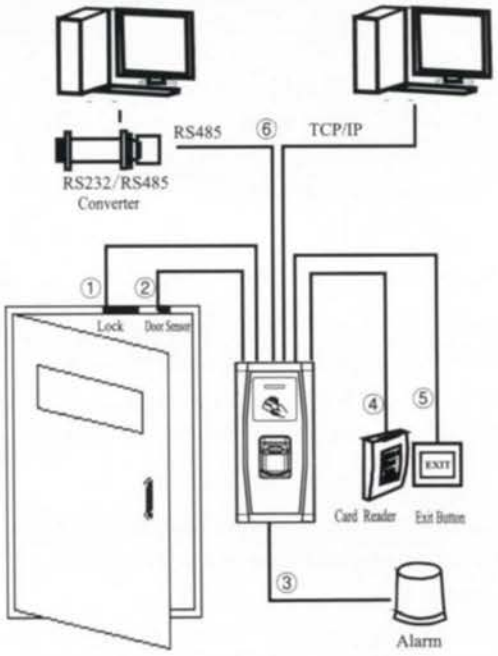
(4) Fix the back cover on the wall according to the mounting paper.



(5) Fix the device to the back cover.

(6) Fix the screw.

2. Structure and Function



Access Control System Function:

(1) If a registered user verified, the device will export the signal to unlock the door.
(2) Door sensor will detect the on-off state. If the door is unexpected opened or improperly closed, the alarm signal (digital value) will be triggered.
(3) If the device being illegally removed, the device will export alarm signal.
(4) External card reader is supported.
(5) External exit button is supported; it is convenient to open the door inside.
(6) Supports RS485, TCP/IP modes to connect with PC. One PC can manage multiple devices.

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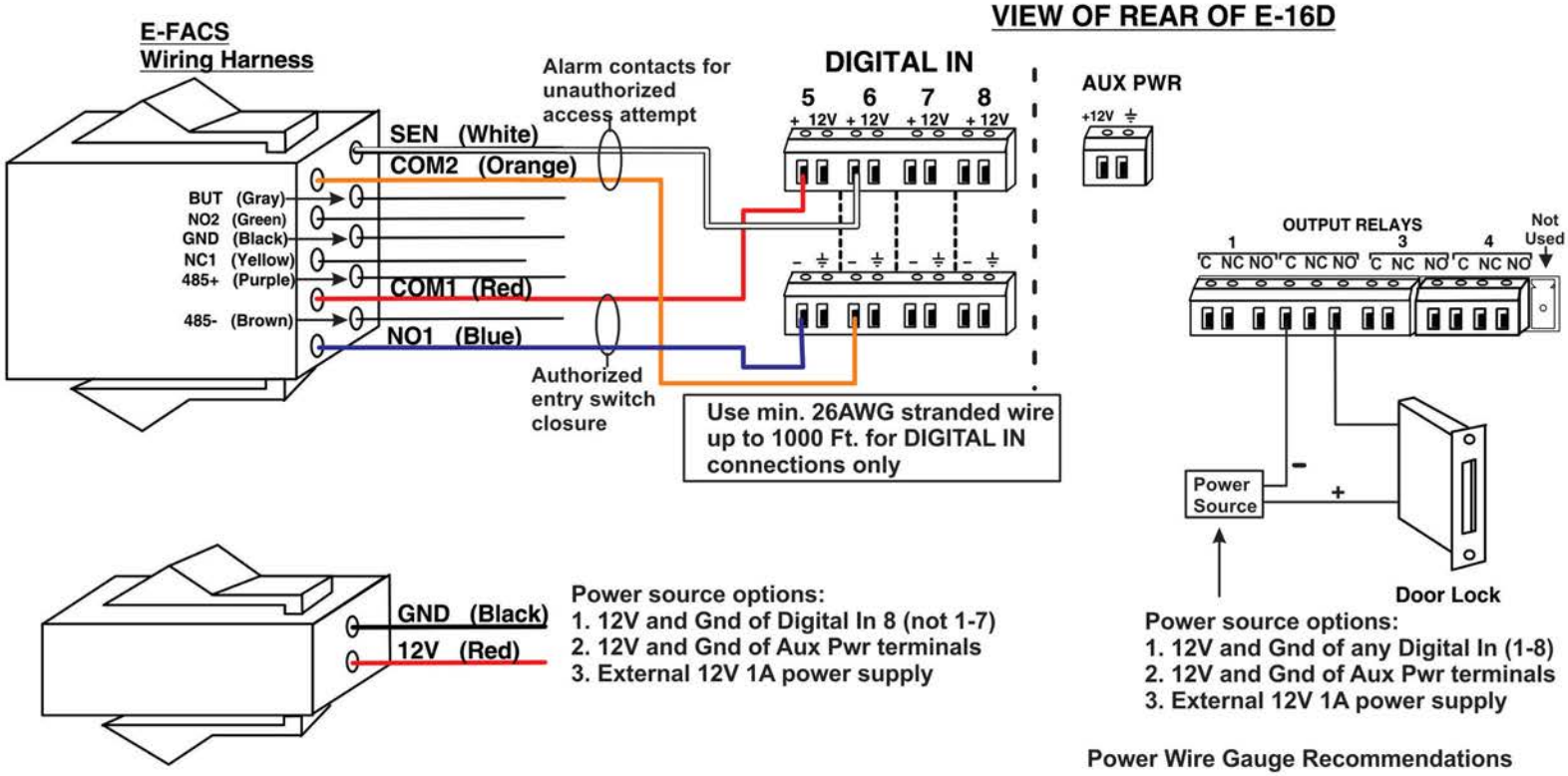
3 Wiring



Power source options:
1. 12V and Gnd of Digital In 8 (not 1-7)
2. 12V and Gnd of Aux Pwr terminals
3. External 12V 1A power supply

Power source options:
1. 12V and Gnd of any Digital In (1-8)
2. 12V and Gnd of Aux Pwr terminals
3. External 12V 1A power supply

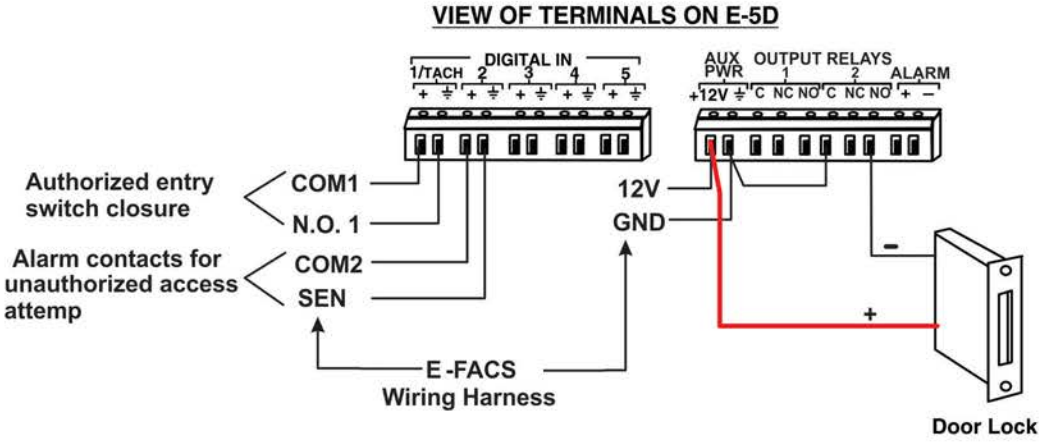
Power Wire Gauge Recommendations

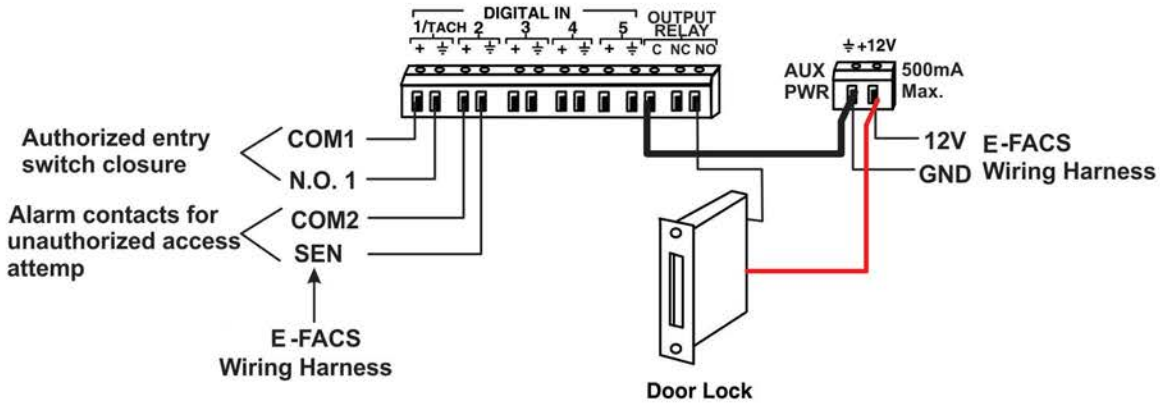
Max.Length(Ft)	AWG
100	26
400	24
700	22
1000	20

For best performance, use stranded wire.

The E-FACS requires 200mA @ 12VDC to operate.

The E-FACS RFID frequency is 125Khz and the standard transmission power is 72dBμA/m maximum





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3 Wiring

E-FACS APPLICATION WITH E-ACK KEYPAD ADDED.

This wiring method utilizes an E-ACK Keypad to activate the "Exit Button"feature of the E-FACS for door lock control.