CAUTION: The product is sensitive to Electrostatic Discharges (ESD). Observe precautions while handling the circuit board assembly by using proper grounding straps and handling precautions at all times.

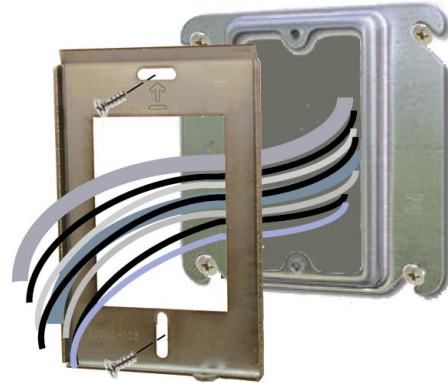# 1 Preparation (For Indoor Use Only)

Install electrical box.

> For new installations: 4" square electrical box (minimum 1 ½" deep) with a single-gang plaster ring, or equivalent.

> **Note**: To prevent tampering, conceal plaster ring mounting screws with plasterboard or use tamper resistant screws.

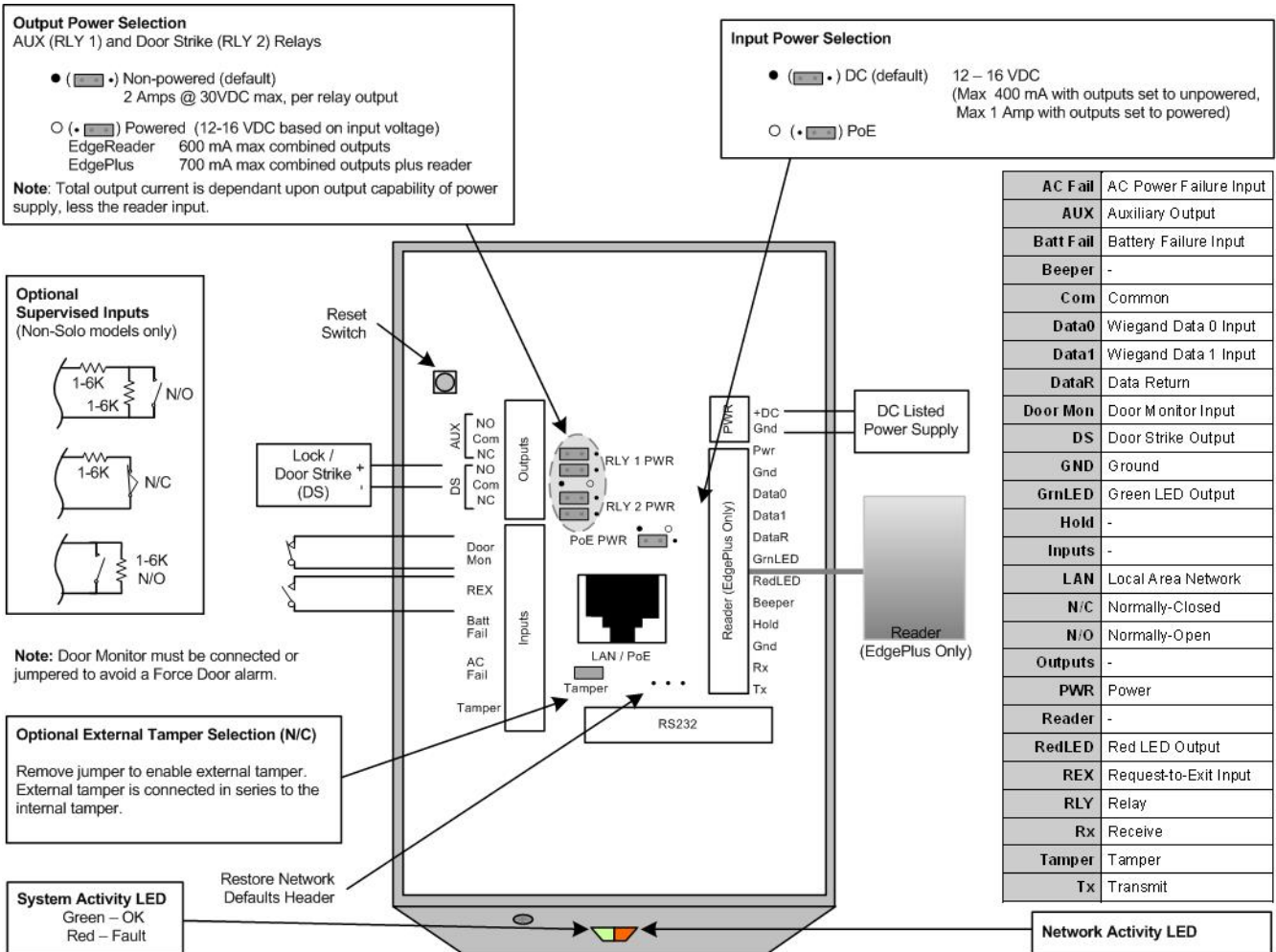> For surface-mount installations: Wiremold® V5744S or BW35, or equivalent.

Remove metal back plate from unit and mount to electrical box, as shown.

2 Wiring

Specifications

Ethernet	300 feet (100 m) Category 5 cable	ALPHA 9504C / 9405F
Wiegand	500 feet (150 m) 9-conductor, stranded, overall shield, 22 AWG	ALPHA 1299C
Input Circuits	500 feet (150 m) 2-conductor, shielded, 22 AWG, 18 AWG	ALPHA 1292C / 2421C
Output Circuits	500 feet (150 m) 2-conductor, shielded, 22 AWG, 18 AWG	ALPHA 1172C / 1897C
RS-232	50 feet (15 m) 9-conductor, stranded, 22 AWG	ALPHA 1299C / 58119

Output Power Selection
AUX (RLY 1) and Door Strike (RLY 2) Relays

● (▭ •) Non-powered (default)
     2 Amps @ 30VDC max, per relay output

○ (• ▭) Powered (12-16 VDC based on input voltage)
     EdgeReader   600 mA max combined outputs
     EdgePlus   700 mA max combined outputs plus reader

Note: Total output current is dependant upon output capability of power supply, less the reader input.

Input Power Selection

● (▭ •) DC (default)   12 – 16 VDC
                        (Max 400 mA with outputs set to unpowered,
                         Max 1 Amp with outputs set to powered)

○ (• ▭) PoE

Optional Supervised Inputs
(Non-Solo models only)

1-6K 1-6K N/O
1-6K N/C
1-6K N/O

Note: Door Monitor must be connected or jumpered to avoid a Force Door alarm.

Optional External Tamper Selection (N/C)

Remove jumper to enable external tamper. External tamper is connected in series to the internal tamper.

System Activity LED
Green – OK
Red – Fault

Restore Network Defaults Header

Reset Switch

Lock / Door Strike (DS)

DC Listed Power Supply

Reader (EdgePlus Only)

Network Activity LED

AC Fail	AC Power Failure Input
AUX	Auxiliary Output
Batt Fail	Battery Failure Input
Beeper	-
Com	Common
Data0	Wiegand Data 0 Input
Data1	Wiegand Data 1 Input
DataR	Data Return
Door Mon	Door Monitor Input
DS	Door Strike Output
GND	Ground
GrnLED	Green LED Output
Hold	-
Inputs	-
LAN	Local Area Network
N/C	Normally-Closed
N/O	Normally-Open
Outputs	-
PWR	Power
Reader	-
RedLED	Red LED Output
REX	Request-to-Exit Input
RLY	Relay
Rx	Receive
Tamper	Tamper
Tx	Transmit

3 Mount

Hinge the Edge in place and secure with a screw.

4 Contact

Contact Edge through one of the following methods:

Direct Connect

If Edge will be connected to a network using static IP addressing or if the Discovery GUI is not installed on the PC, use this method.

Note: The computer must be running Windows 2000 or XP and be configured for DHCP.

1. Disconnect the computer from the network and directly connect Edge to the computer with an Ethernet cable

2. Click **Start > Run.** Enter **ipconfig /renew** ↵

3. Access a web browser and enter **169.254.242.121** into the **Address field** ↵

Discovery GUI (for DHCP networks)

With a DHCP network, use the VertX Discovery GUI on the PC to locate and connect to Edge.
Note: The Edge must be connected to the network before power is applied for DHCP to function.

1. With the PC connected to the same network as Edge, click **Start > Programs > VertX Tool Box > Discovery GUI**.

2. Select the desired device from the list

3. Click **Configure Unit**

If the Discovery GUI is not installed on the PC, the application can be downloaded from
http://www.hidglobal.com/downloads/DiscoveryClient.zip

Note: Windows$^{®}$ XP is required for the Discovery GUI.

5 Configure

The web browser will prompt for login information. From the **Login** screen enter **admin**, leaving the **Password** field empty. Follow the instructions on the web browser screen to configure Edge.

6 Test

Test the system once per year using the web Graphical User Interface to ensure all wiring and configuration is correct.

For additional installation information, such as PIR and other active Request-to-Exit (REX) devices, as well as connecting fire relays, please see: http://www.hidglobal.com/edgesupport.

Battery Replacement

There are no User serviceable parts within the device. The lithium battery shall be replaced be a trained service technician only.

⚠ Replace battery with Panasonic, Part No. CR2032 or equivalent. Use of another battery may present a risk of fire or explosion.

CAUTION: Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire. To prevent a risk of explosion do not pry the battery out with a metal or conductive tool.