

Nexus Addendum Pictogram and Exit Sign

(Nema 4X: Hazardous locations)

Installation instruction

Turn OFF the AC power. All electrical installations should be performed by a qualified electrician.

1. Mount unit in desired location. Refer to installation instructions specific to the unit to be installed.
2. See caution for 347VAC. Route the Nexus data cables in the unit and strip 25mm(1in) of the double insulation (see detail in figure 1). The two cables are identical and both contain 2 wires of different colors: "color A" and "color B". Gather the "color A" wire from each cable, and connect them to the same pole on the terminal block. Gather the "color B" wire from each cable, and connect them to the other pole on the terminal block. The result must be 2 wires of the same color in each pole on the terminal block (see detail in figure 1).

Leave a minimum of one inch between the live voltage cabling and the unsheathed low voltage data cabling.

Important: Leave a minimum of 25mm(1in) between the live voltage cabling and the unsheathed low voltage data cabling.

3. Connect the battery female connector to the male connector on the charger module.
4. For instructions on connecting to the AC power line refer to installation instructions specific to the unit to be installed.
5. Turn on the AC power. The AC ON pilot light will light up.
6. After the unit has been operating for at least 30 seconds depress test switch. The emergency lights shall turn on. Wait 10 seconds and press the test switch again to turn the emergency lights off (or allow the unit to turn off automatically after 1 minute).
7. All units are equipped with a low voltage battery protection circuit. This "LVD" disconnects the lamp load when the battery is discharged 87.5% of its nominal voltage.

Reset the system whenever you add or change lamp loads.
To reset the system, see the "Lamp filament detection section".

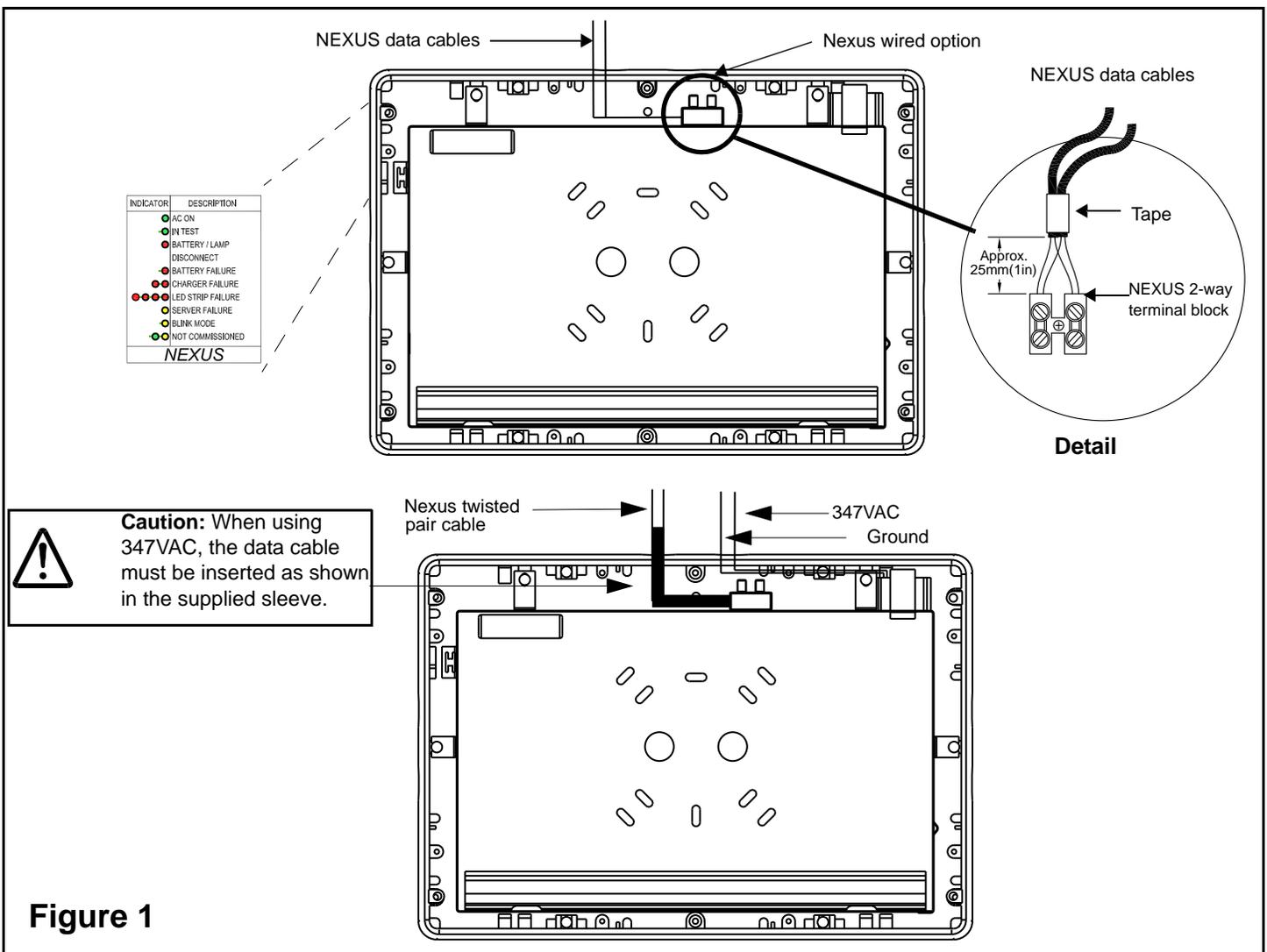


Figure 1

Status LED

	LABEL	INDICATOR ACTIVITY	MEANING
	AC ON	Steady green	AC on
	IN TEST	Blinking green	Testing in progress
	BATTERY / LAMP DISCONNECT	Steady red	Battery disconnected and/or load disconnected
	BATTERY FAILURE	1 red blink, then a 5-second pause	Battery failure
	CHARGER FAILURE	2 red blinks, then a 4-second pause	Charger failure
	LAMP FAILURE	3 red blinks, then a 3-second pause	Lamp failure
	LED STRIP FAILURE	4 red blinks, then a 2-second pause	LED strip failure (exit & combo versions only)
	SERVER FAILURE	Steady yellow	Server failure
	BLINK MODE	Blinking yellow	Wink mode
	NOT COMMISSIONED	Alternating yellow and green blinks	Unit not commissioned

Magnetic test switch

To activate the transfer, holding the provided magnet where indicated near the LED display. A one minute transfer will be initiated. To abort the transfer, hold the magnet over the indicated place again. If you hold the magnet in place for at least 5 seconds, the charger will reset.

Electrical specifications

Power requirements

Standard 120/277V 60 Hz or 120/347V 60 Hz
Other AC voltage and frequency (50 Hz) available on request.

Output (maximum): Fused output circuit

Refer to electrical specifications provided on the unit label.

Transfer

Dust-tight relay automatically and instantaneously energizes lamp load upon failure of AC supply.

Lamp Filament Detection

Resolution is 10% of the full-load circuit or 5.4 watts of a 54 watt load (i.e.: one lamp out of ten).

Load sampling and testing takes place only with a relatively charged battery. When the unit is in test mode for the first time after installation, current samples are taken from the lamps that are used as a reference for when the lamps are checked in the following test modes. The lamps are re-sampled annually if no lamp failure was detected.

To reset the lamp testing after a load change, the battery and the AC line have to be disconnected at the same time or the test magnet must be applied and maintained for at least 5 seconds.

Reconnect the battery and the AC supply if necessary.

LVD

Low voltage battery disconnect automatically shuts down lamp load and circuitry when battery reaches 87.5% of nominal battery voltage preventing deep discharge and permanent damage to the battery.

Lockout

Labour saving feature that automatically connects battery only after AC circuit is activated.

Brownout

Close tolerance feature that initiates a transfer when input line voltage dips below 70-80% of nominal voltage.

Charger

The charger is current limited, temperature compensated and short-circuit proof. The equipment is capable of full recharge in compliance with UL standards 924 specifications, and CSA C22.2 no. 141.

Controls

One magnetic test switch.

Diagnostic functions

Please refer to the Nexus Operating System for full details on diagnostic functions.

CAUTION:

In the event that the Nexus system is disconnected, this unit will automatically come back to auto-test mode.