



GT1175 Pocketed, Telescopic, and All Glass, Slide Door

Quick Set-Up and Parts Guide

P/N C-00090 Rev 8-10-16

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*Associated Manuals Part Numbers: U30 Electrical Installation Manual (P/N C-00121)
U30 Microprocessor Programming Manual" (P/N C-00130)
Automatic Sliding Door Owner's Manual (P/N C-00109) for Decal Installation
NABCO Price Book" for Sensors, Switches, and Accessories (P/N 16-9244-30)*

WARNING

- Turn OFF all power to the Automatic Door if a Safety System is not working.
- Instruct the Owner to keep all power turned OFF until corrective action can be achieved by a NABCO trained technician. Failure to follow these practices may result in serious consequences.
- NEVER leave a Door operating without all Safety detection systems operational.

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SECTION 1: WIRE THE SWITCH ASSEMBLY

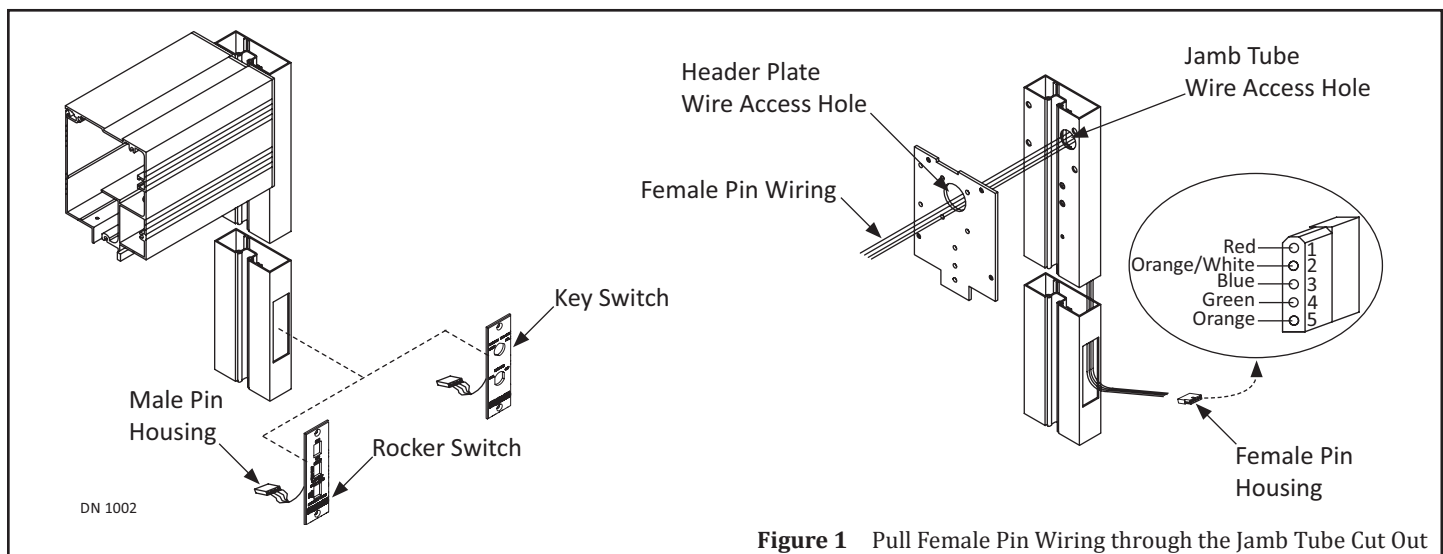
Note: Do not secure the Switch Assembly to the Jamb Tube until after the Slide door installation is complete.

Note: The U30 Microprocessor Control, Main Harness comes in three lengths: 36 inches, 72 inches, and 80 inches. The length used is dependant upon the type of installation.

There are (2) Standard Switch Assemblies that are both installed the same way:

- ▶ Rocker Switch; P/N 14-11876-**
- ▶ Key Switch; P/N 14-11875-**

1. Go to the Header. Remove the Switch Assembly Parts box. Set Aside.
2. Go inside the Header. Locate the Pin wiring that is attached to the U30 Microprocessor Control, Main Harness.
3. Draw the Pin wiring through a hole located at the side of Header and Jamb Tube. Continue to route down the Jamb Tube.
4. Pull the Pin Wiring through the cut out.
5. Obtain (1) loose 5 Circuit Pin Housing from the Parts Box.
6. Insert each Pin into the 5 Circuit Pin Housing accordingly:
 - a. 1 = Red, 2 = White, 3 = Blue, 4 = Green, 5 = Black
7. Obtain (1) Switch Assembly and (2) 10-32 x 1/2 inch Phillips Head Screws from the Parts Box.
8. Connect the Switch Harness from the back of the Switch Assembly to the Main Harness.
 - a. Place extra wiring back inside the Jamb Tube.
9. Insert the Switch Assembly into the Cut Out.
10. Secure the Switch Assembly to the Jamb Tube with (2) 10-32 x 1/2 inch Phillips Head Screws.



SECTION 2: 110 VAC GENERAL WIRING

DANGER

Read and understand the “U30 Controller Setup and Programming Manual” P/N 15-9000; and the “Electrical Installation Manual U30 Control” P/N 15-10596-30 before attempting to power-up the GT-1175 Slide Door. Failure to do so may result in damage to the Slide door and/or injury to the installer and will nullify all warranties.

DANGER

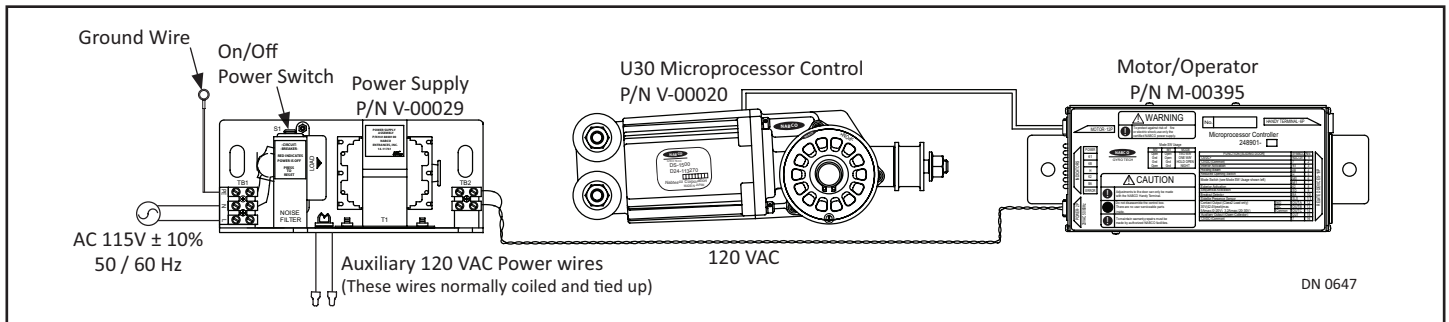
Disconnect power to the junction box prior to making any electrical connections. Failure to do so may result in serious personal or fatal injury. When uncertain whether power supply is disconnected, always verify using a voltmeter.

Notice: Wiring must meet all local, state, federal or other governing agency codes.

1. Ensure all power is disconnected at the Junction box and the 1175 Slide Door.
2. Determine correct supply voltage is 115 VAC \pm 10%.
3. Inspect location and grade of all incoming 120 VAC power wires.
4. Insert all incoming 120VAC power wires into the access hole located on Jamb Tube. It is recommended to house all wires into an Electrical Conduit.

CAUTION

Keep all incoming 120 VAC wiring separate from low voltage wiring within Header. Do not route 120 VAC wires near the U30 Microprocessor Controller and Motor/Operator.



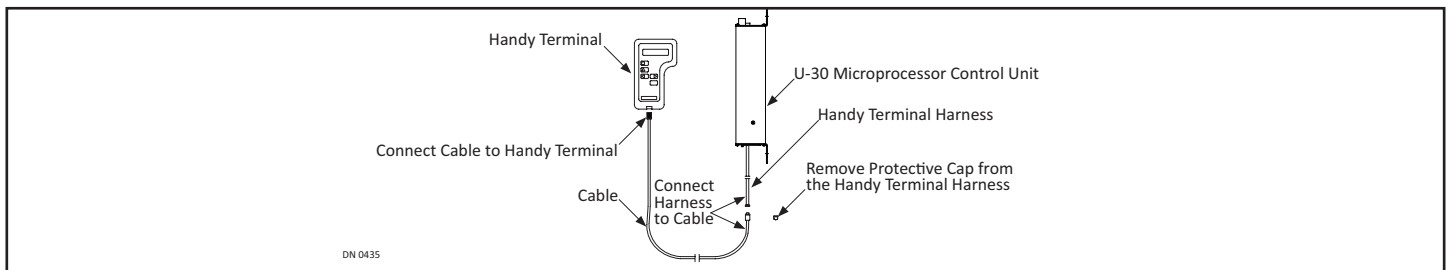
5. Go to the TB1 Port located on the Left side of the Power Supply Module.
6. Insert the Incoming 120 VAC Black (HOT) wire into the Circuit marked "L".
7. Insert the Incoming 120 VAC White (Neutral) wire into the Circuit marked "N".
8. Insert Green (Grounding) wire into the Circuit marked "PE".
9. Ensure the Slide door system is Grounded for safe and consistent operation.

2.1 Determine Correct Handing

1. With power OFF, manually slide the door half way open.
2. Turn power ON. The Slide door should slowly close (per Power On factory settings).

2.2 Correct Wrong Handing

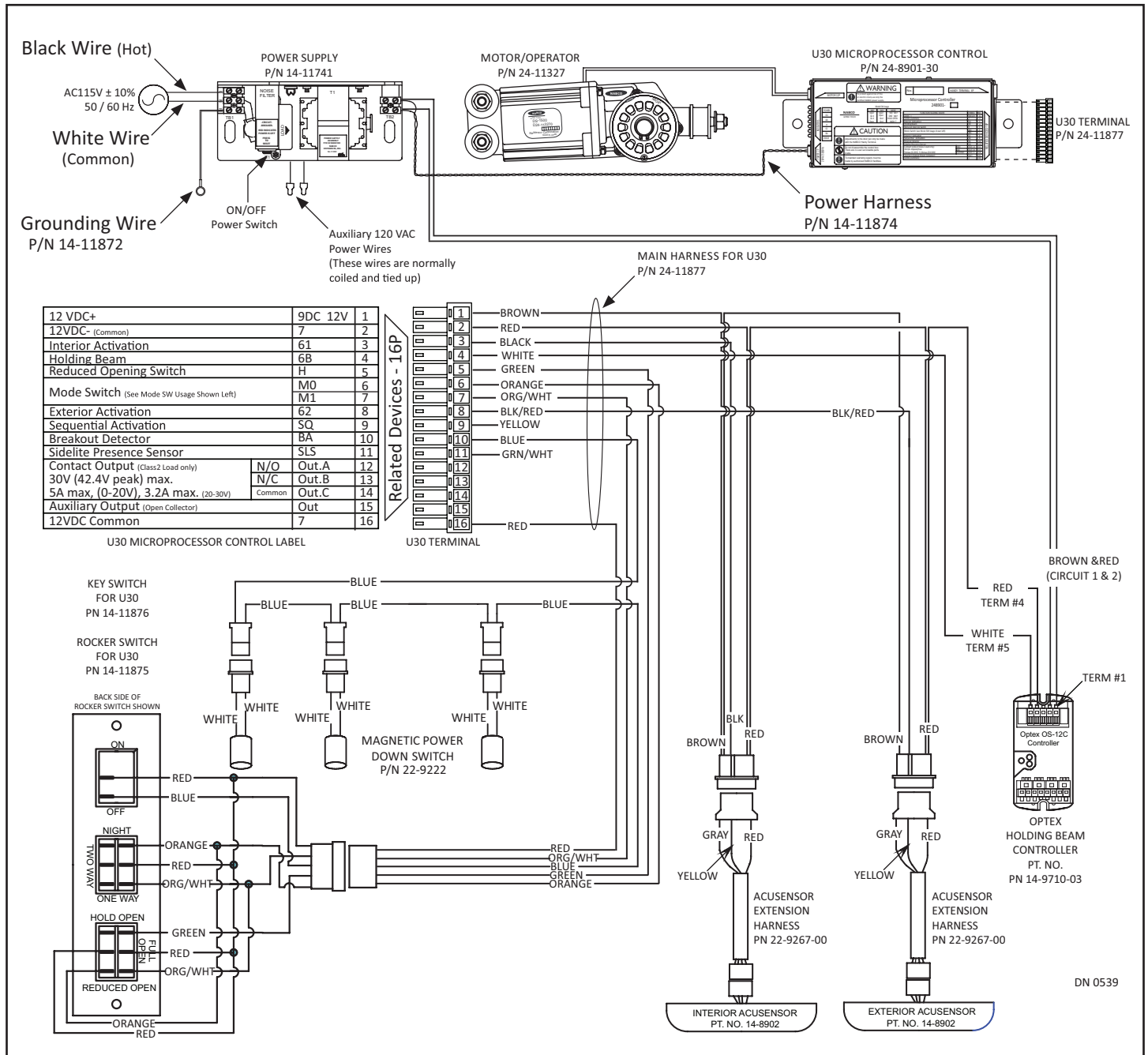
1. With the power ON, obtain the Cable from the Handy Terminal Case.
2. Go to the Handy Terminal Harness that is connected to the U30 Microprocessor Controller. Remove the protective Cap.
3. Connect the plug end of the Cable (that is protected with a metal sleeve), to the socket of the Handy Terminal Harness.
 - a. The plug end of the Cable has multiple prongs that need to line up with the socket. Gently turn the plug end clockwise while trying to insert it until a connection can be made.
4. Connect the other end of the Cable to the Handy Terminal.



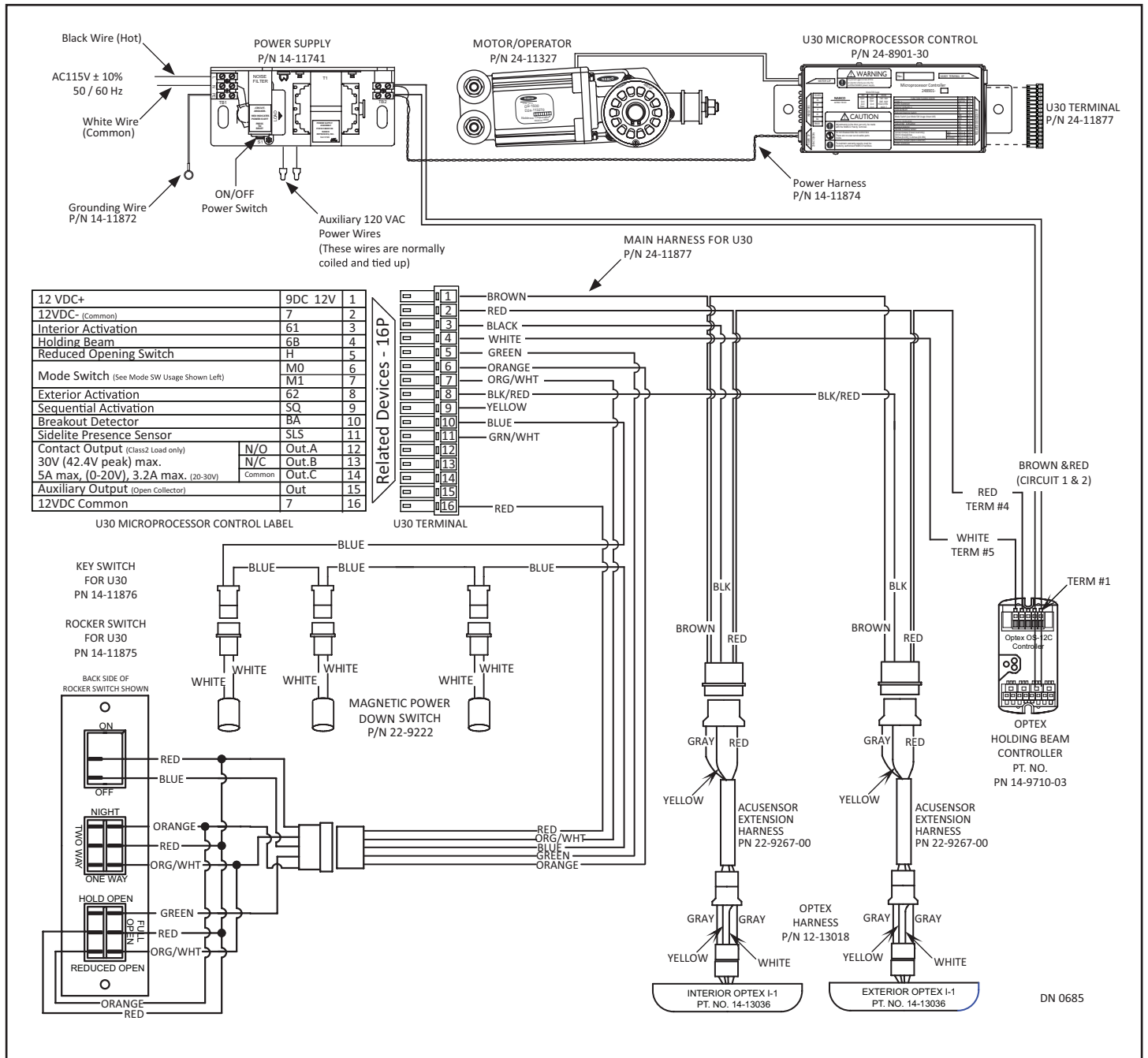
5. Press: **ENTRY** until the screen displays: **SPECIAL FUNCTION ADJUSTMENTS** Then select: **Y**
6. Continue pressing: **ENTRY** until the Screen displays: **RECYCLE** Change the setting.
7. Disconnect the Handy Terminal.
 - a. Wait at least (10) seconds before disconnecting Handy Terminal to allow last test to complete and message display to stabilize.
 - b. Slide the metal jacket off the Terminal Connector before removing the Handy Terminal cable.
8. Repeat Steps 1 and 2 within Section 8.2 to confirm correct door operation. Slide Door should now slowly close.
9. Plug the Handy Terminal back into the Terminal Connector.

SECTION 3: GENERAL WIRING

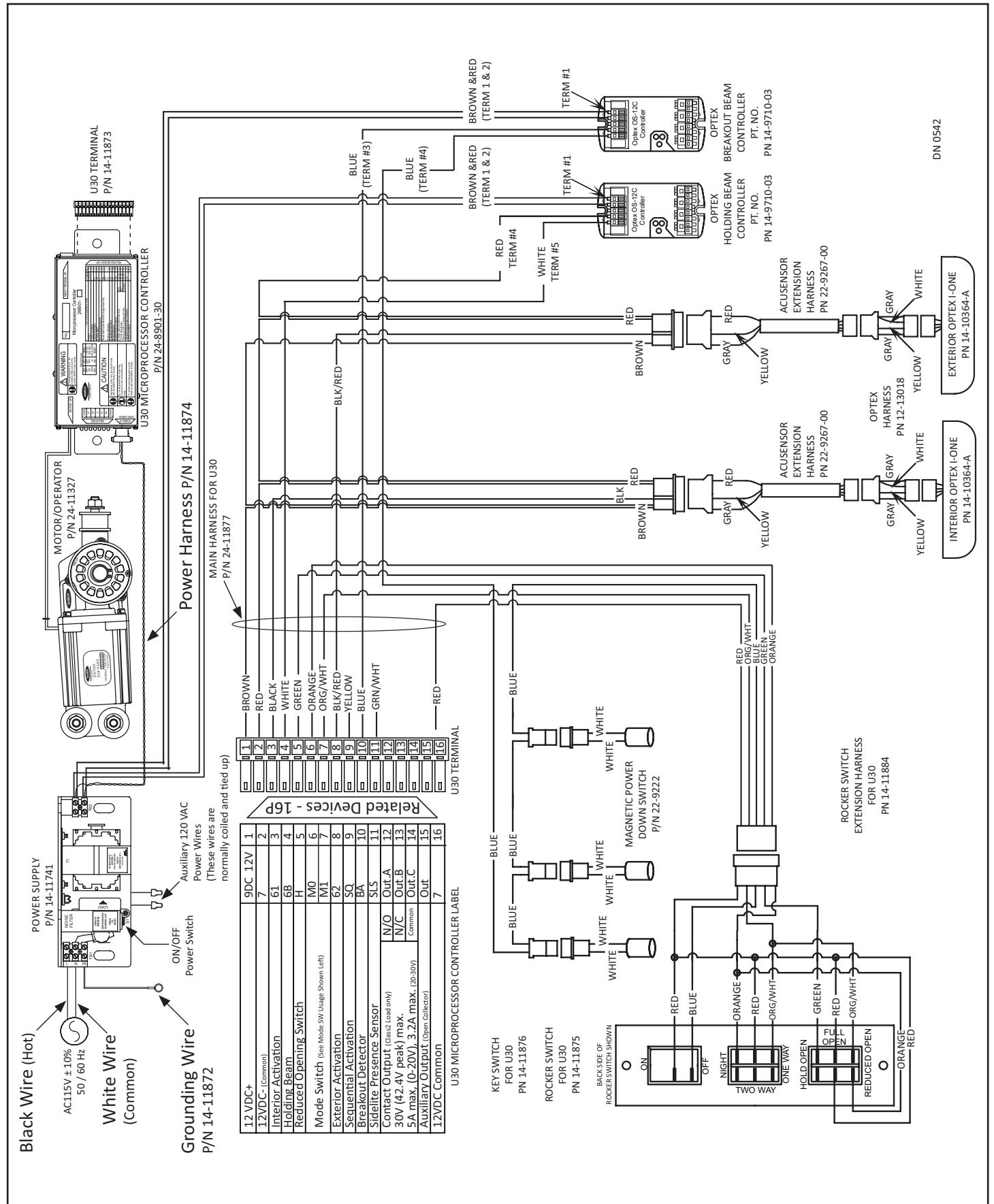
3.1 (2) Acusensors and (1) Holding Beam



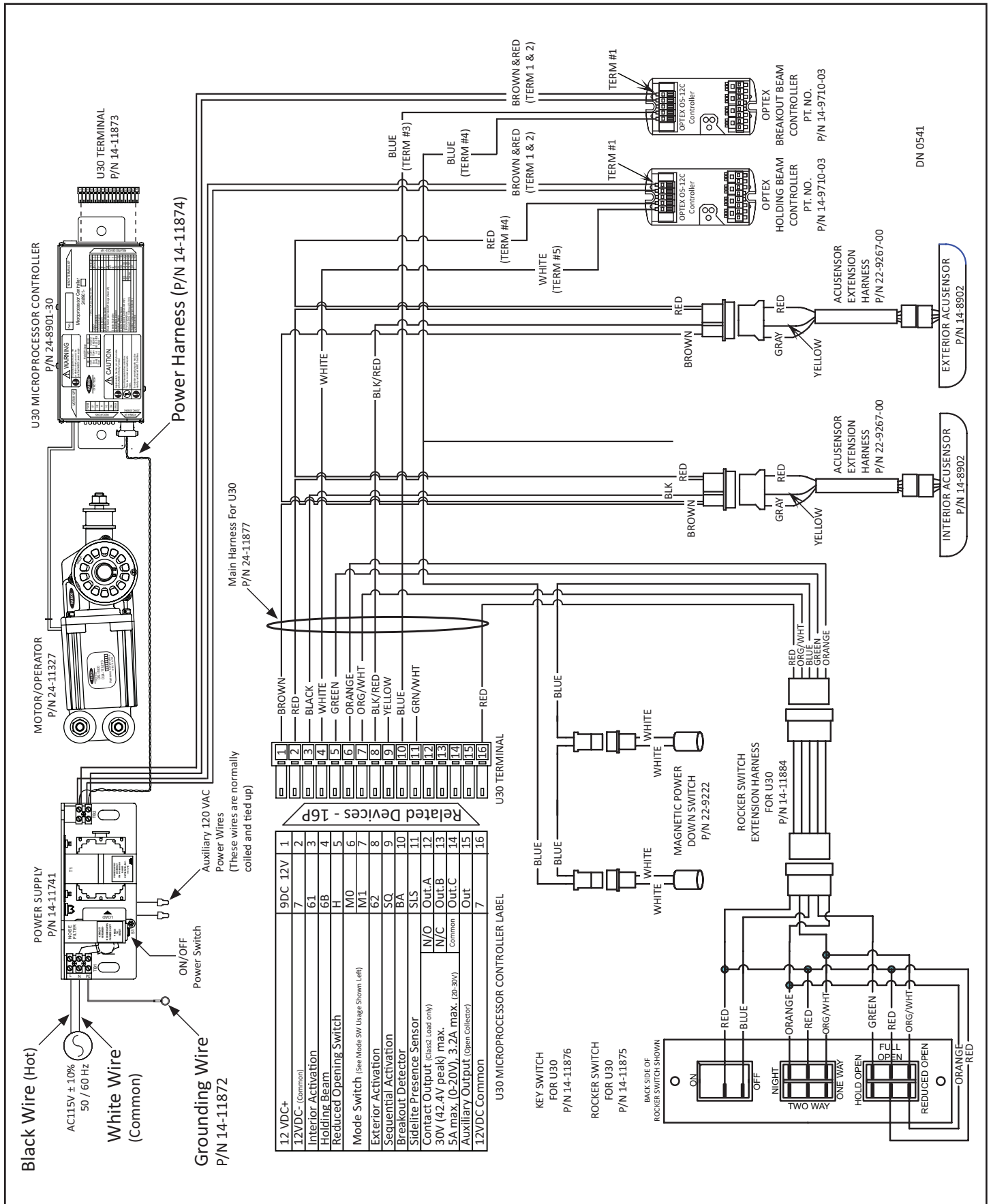
3.2 (2) Optex i-One Sensors, (1) Holding Beam and (1) Breakout Beam



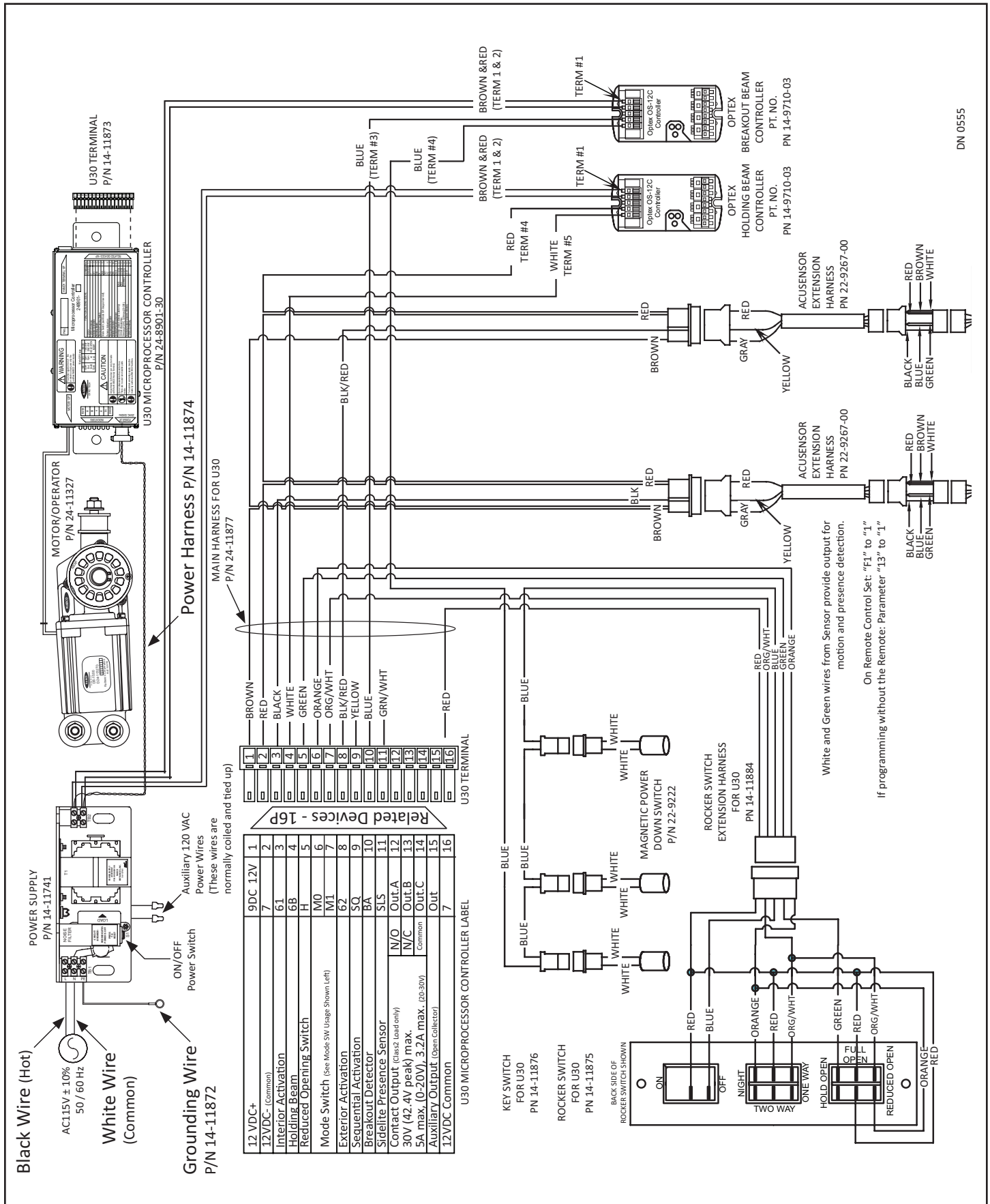
3.3 (2) Acusensors, (1) Holding Beam and (1) Breakout Beam



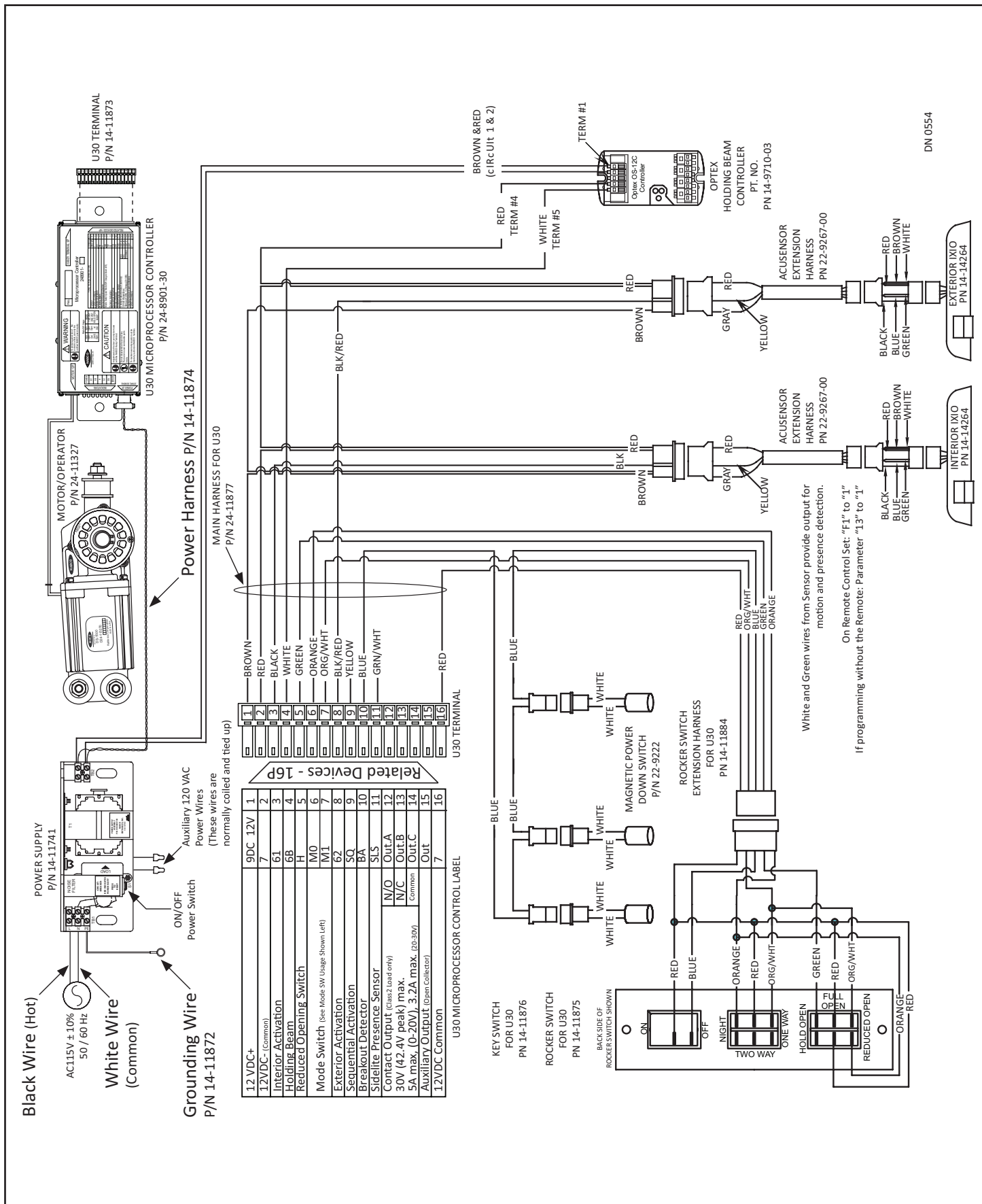
3.4 (2) Optex i-One Sensors, (1) Holding Beam and (1) Breakout Beam



3.5 (2) Wizard G3, and (1) Holding Beam



3.6 (2) Wizard G3, (1) Holding Beam and (1) Breakout Beam



SECTION 4: PROGRAM THE HANDY TERMINAL

CAUTION

Failure to follow disconnecting procedures may result in total loss of communication between the U30 Microprocessor Control and the Handy Terminal.

1. The Handy Terminal automatically turns on after it is plugged into the Terminal Connector. The Slide door will slowly close if it is not already closed. The following messages will automatically display after the Slide door reaches the fully closed position (**GYRO TECH HANDY TERMINAL**) and then (**BUZZER Y N**).
 - a. If a message on the screen does not advance, go to the U30 Microprocessor Control. Check to see if the **BA LED** is lit. If the **BA LED** is lit; either the Panic Breakout Circuit is open or the Rocker Switch is turned to the OFF position.
 - b. Voltage between terminals (10 and 2) on U30 Microprocessor Control should measure 0 volts during normal operation.
2. Press the Shift buttons to select:
 - ▶ **Y** to hear audible feedback after each menu button is pressed.
 - ▶ **N** to not hear audible feedback after each menu button is pressed.
3. Press: Entry

4.1 Set the Stroke of Slide Door

1. Upon initialization of the Handy Terminal, the following message will be displayed: **SLIDE/SWING/STROKE Y N**
2. Press the Shift buttons to select: **Y**
3. Press: Entry The following message will be displayed: **SWING DOOR Y N**
4. Press the Shift buttons to select: **N**
5. Press: **ENTRY** The following message will be displayed: **FULL OPEN POINT PRESS TEST**
6. Manually slide the door until it reaches the fully open position. Press: **TEST**
 - a. The Sliding door will slowly close while measuring the Stroke of the door.
7. After the initial Stroke setup is completed, the following message will be displayed: **STD FUNCTION Y N**
8. Door behavior based on current settings can be viewed at any time by pressing: **TEST**
 - a. The Slide door will complete a full cycle and slow down at the Latch Check point and the Back Check point.
9. After the Test is complete the following message will display again: **STD FUNCTION Y N**
 - a. This concludes the initial setup to factory settings.
10. If the U30 Microprocessor Control:
 - ▶ Does Not need to be programmed with custom settings, disconnect the Handy Terminal and instruct the building owner of the Slide door's operation.
 - ▶ Does need to be programmed with custom settings, please refer to P/N 15-9000-30; U30 Microprocessor Manual.

SECTION 5: INSTALL THE GLASS STOPS

WARNING

Glazer must be fully trained and qualified. Failure to do so may result in bodily injury, or property damage.

Note: Ensure the installation area is free of debris and/or sharp objects. Failure to do so may damage the glass or contaminate the glazing process.

5.1 Door Panel

Note: The Snap Base and Vinyl Bumpers are preinstalled at the NABCO Factory.

1. Ensure the Snap Base is free of debris and/or sharp objects.
2. Obtain the Glass Stop provided by NABCO.
3. Install the Glass Panel.
4. Snap the Glass Stop into the Snap Base.

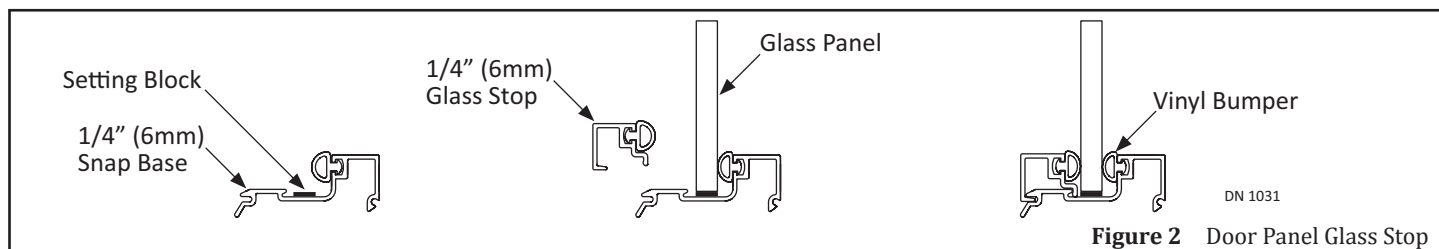


Figure 2 Door Panel Glass Stop

5.2 Transom

Note: Vinyl Bumpers are preinstalled at the NABCO Factory.

1. Obtain all Snap Bases and Glass Stops provided by NABCO.
2. Go to the top of Header.
3. Snap each Snap Base inside the Channel on either side of Transom Verticals.
4. Install the Glass Panel.
5. Snap each Glass Stop into each Snap Base.

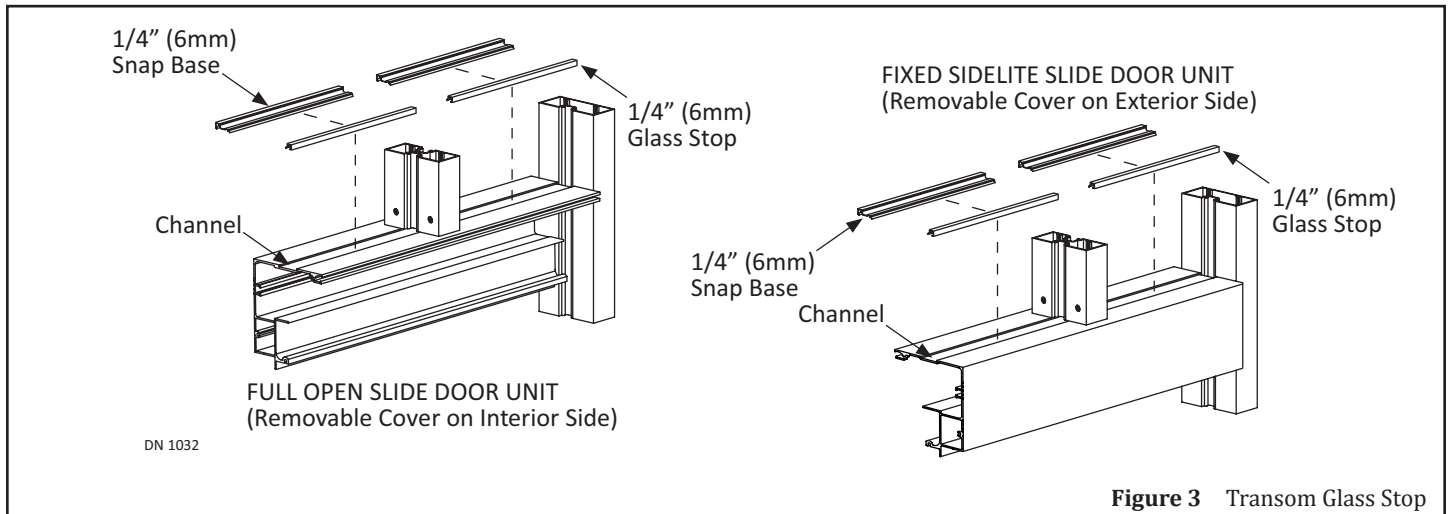


Figure 3 Transom Glass Stop

5.3 Dust Protector Hoods (Clean Room/Optional)

Note: All Aluminum Hoods and Vinyl Shields are installed for Clean Room Slide Door Units only and are not manufactured by NABCO. Please call Customer Service for replacement parts at 1-888-679-3319.

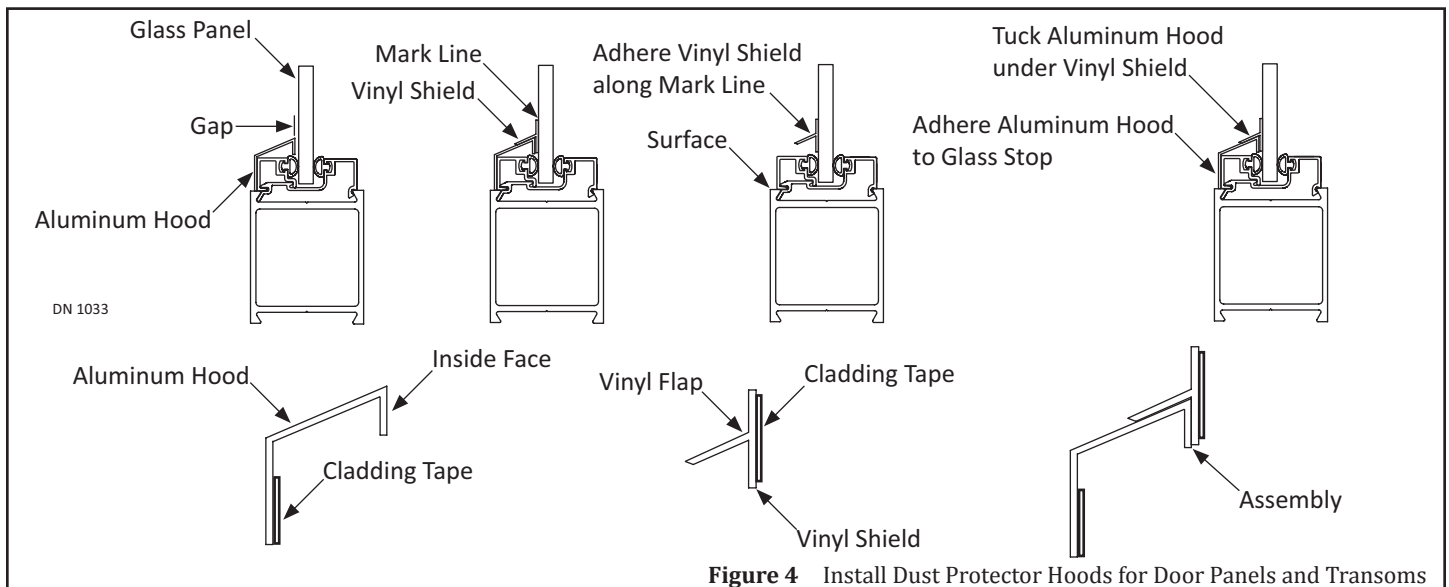


Figure 4 Install Dust Protector Hoods for Door Panels and Transoms

5.3.1 Door Panel and Transom

Note: Aluminum Hoods are installed at the bottom of each Door panel and Transom.

1. Install Glass Stops according to Subsection 18.1 and Subsection 18.2.
2. Obtain all Aluminum Hoods and Vinyl Shields provided by NABCO.
 - a. Do Not remove protective paper from double sided Cladding Tape at this time.
3. Place each Aluminum Hood over each Glass Stop so the bottom edge of the Aluminum Hood is resting on the surface.
4. Insert the bottom half of each Vinyl Strip inside the gap that is located behind the Aluminum Hood. The Vinyl Flap must be laying on top the Aluminum Hood.

5. Hold the assembly in place while it is pressed up against the Glass Panel. Make a temporary Mark along the full length of the Vinyl Strip.
 - a. Ensure the bottom edge of the Aluminum Hood is still resting on the surface for proper alignment.
 - b. Ensure the mark can be removed once installation is complete.
6. Remove the assembly. Remove the protective paper to expose the Cladding Tape from the Vinyl Shield.
7. Align the Vinyl Strip to the temporary Mark and adhere to the Glass Panel.
8. Remove the protective paper to expose the Cladding Tape from the Aluminum Hood.
9. Align the Aluminum Hood with the Vinyl Shield.
10. Adhere the Aluminum Hood to the Glass Stop and tuck it under the Vinyl Flap.

5.3.2 Header

1. Obtain (1) Stainless Steel Hood provided by NABCO. Go to the side of Header that has the Removable Cover.
2. Position the Stainless Steel Hood on top of the Header so the (turned under) bottom lip is resting on the Header surface and the inside face is pressed up against the building. Ensure proper length and fit is correct.
3. Remove all protective paper to expose the Cladding tape. Adhere the Stainless Steel Hood to the Header.

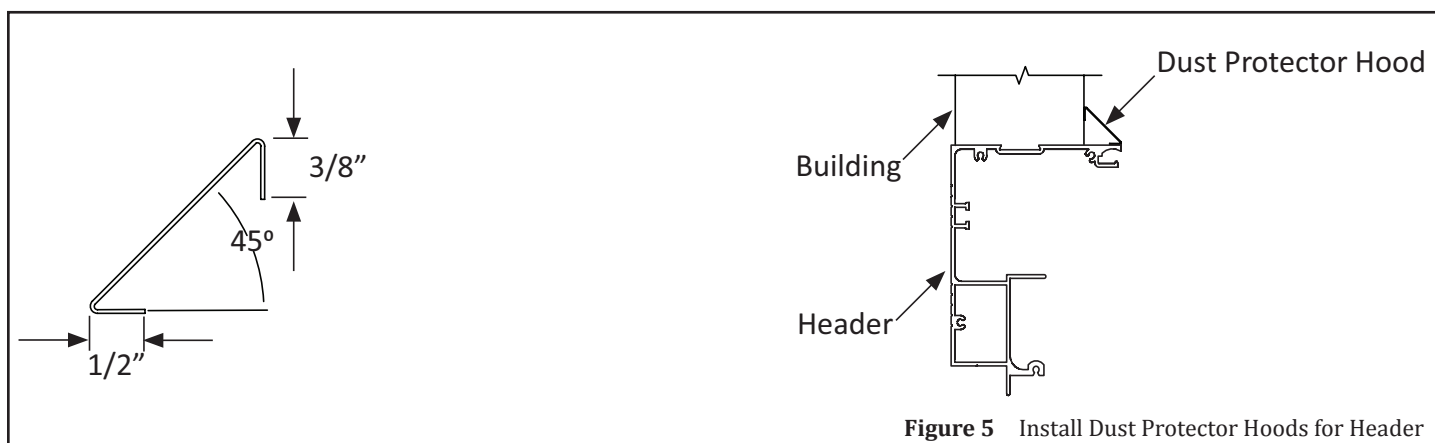


Figure 5 Install Dust Protector Hoods for Header

SECTION 6: U30 PROCESSOR SETTINGS

Rocker Switch Settings (When wires M0 and M1 are switched to Red 7 the state is indicated by "ON")				
Mode	Wire M0	Wire M1	Wire H	Description
Two Way Mode	OFF	OFF	-	Both Sensors on Terminals 3 and 8 and the Holding Beam* on Terminal 4 will receive signals while the door is closed or cycling.
Hold Open Mode	ON	ON	-	No activation needed. Door is held open.
Reduced-Open Mode	-	-	ON	Door will go to the reduced opening position upon activation.
One-Way Traffic Mode	ON	OFF	-	<ul style="list-style-type: none"> ● Only the Sensor on Terminal 3 will receive signals while the door is closed. ● The Sensor on Terminal 8 and the Holding Beam on Terminal 4 will be ignored while the door is closed. ● During the door cycle both the Sensors and the Holding Beam will receive signals. ● The electric lock will be active to prevent exterior entry.
Night Traffic Mode	OFF	ON	-	<ul style="list-style-type: none"> ● No Sensor on Terminals 3 or 8 or the Holding Beam on Terminal 4 will receive signals while the door is closed. ● Activation is only accomplished by switching M0 to Red (7). ● During the door cycle both the sensors and the Holding Beam will receive signals. The electric lock remains locked except for activations from wall plates or card readers.

Diagnostic LEDs for easy Troubleshooting			
Symbol	LED Color	Description	
Power	Red	Indicates power is ON.	
61	Red	Activation <ul style="list-style-type: none"> Indicates a signal on the Black (61) wire. Black (61) wire carries the signal for the activation circuit that will open the door from a closed position in TWO WAY or ONE WAY mode only. Black (61) wire usually connects to the Interior motion sensor. 	
6B	Green	Holding Beam <ul style="list-style-type: none"> Indicates a signal on the White (6B) wire. U30 Microprocessor can be programmed to ignore Holding Beam when door is fully closed. 	
H	Green	Reduced Opening <ul style="list-style-type: none"> Indicates a signal on the Green (H) wire. The Green (H) wire carries the signal to the U30 Microprocessor Control to put the door into reduced opening. 	
62	Green	Activation <ul style="list-style-type: none"> Indicates a signal on the Black/Red (62) wire. Black/Red (62) wire carries the signal for the activation circuit that will open the door from a closed position in TWO WAY mode only. Black/Red (62) wire usually connects to the exterior motion sensor. 	
BA	Green	Panic Breakout and OFF <ul style="list-style-type: none"> When Green LED is OFF it indicates: Closed signal on the Blue (BA) wire or a Slide door is ready for operation Blue (BA) wire carries the signal for the Panic Breakout circuit that stops Slide door operation if the Slide door is panicked open or if the Rocker Switch is turned OFF. When Green LED is ON the circuit is open and the unit will not operate. 	
Error	Red	Off	Indicates normal operation.
		Flashing	Please see Error Flashing descriptions listed below.
		Error Flashes	Description
		1 flash	Door is in RECYCLE mode.
		2 flashes	12VDC output is overloaded.
		3 flashes	Indicates diagnostic error. Connect Handy Terminal to check error details.
		1 flash and 2 flashes	Recycle and 12 VDC Overload.
		1 flash and 3 flashes	Recycle and diagnostic error.
		2 flashes and 3 flashes	12 VDC overload and diagnostic error.
1 flash, 2 flashes and 3 flashes	Recycle; 12 VDC overload and diagnostic error.		

16 Pin Terminal Block Assignments (All wires are identified by color)				
No.	Symbol	Function	Wire Color*	Description
1	9DC 12V	12 VDC+	Brown	Output Terminal: <ul style="list-style-type: none"> • Sensor power source Output Terminal • Output is 12 VDC with a maximum capacity of 0.35 amps (350mA).
2	7	Common	Red	Output Terminal: Provides common ground for the 12 VDC power and signal source.
3	61	Interior Activation	Black	Activation Signal Input: Opens the door based on a signal from the Sensor that is active in one way mode.
4	6B	Holding Beam	White	Holding Beam Input: Opens or re-opens a door when the holding beam signal is activated.
5	H	Reduced Opening Switch	Green	Reduced Opening Input: Enables reduced door opening when switched to Red (7)
6	M0 One Way	Mode Switch	Orange	Input for Switch 1 (SW1): Used to achieve special functions.
7	M1 Night	Mode Switch	* Orange/ White	Input for Switch 2 (SW2): <ul style="list-style-type: none"> • Used to achieve special functions. • All references to Mode Switches are made in connection with ground (Red).
8	62	Exterior Activation	* Black/ Red	Input Terminal: Receives signal from a Sensor that is switched out in ONE WAY mode.
9	SQ	Sequential Activation	Yellow	Input Terminal: Allows a sequence of signals to open and close the door.
10	BA	Breakout Detector	Blue	Input Terminal: <ul style="list-style-type: none"> • Connects directly to Red (7) during normal operation. • When the Rocker Switch is turned OFF or if the door is panicked open, it is disconnected from Red (7) causing Slide door to stop operating.
11	SLS	Misellaneous Input	* Green/ White	Input Terminal: Receives signal from Sidelite Sensor or additional devices.
12	OUT A	Auxiliary Output	Gray	Terminal is connected to the Normally Open contact on an Internal Relay: <ul style="list-style-type: none"> • Also Referred to as the "Auxiliary Relay Output". • Used as a switch to sequence Electric Strikes, control other doors in an Airlock situation, or signal a Remote Computer on the door operation.
13	OUT B	Auxiliary Output	Gray	Terminal connected to the Normally Close contact on an Internal Relay.
14	OUT C	Auxiliary Output	Violet	Terminal is the common for output wire OUT A or OUT B.
15	OUT	Auxiliary Output 2	*Brown/ Yellow	Terminal connected to an Internal Transistor with open collector in the U30 Microprocessor Control.
16	7	Common	Red	Terminal connected to an Internal Transistor with open collector in the U30 Microprocessor Control.

* Color 1/Color 2 denotes a base wiring Color 1 with a Stripe Color 2 (e.g. Black/Red = Black wire with a Red Stripe)

Handy Terminal Error Messages			
Error Message	Definition	Problem	Resolution
ROM ERROR	Internal ROM Error: Internal memory error.	Door does not work.	Reset U30 Microprocessor Control by turning 120 VAC off then on again OR connect the Handy Terminal and clear the Error Message.
ERROR RESET AGAIN	Communication Error: Communication between the U30 Microprocessor Control and the Handy Terminal is not taking place.	Control does not retain new settings from the Handy Terminal	Reset U30 Controller by turning 120 VAC OFF then on again. If problem persists the cables, or control and/or Handy Terminal might be defective. Tip: Use Handy Terminal and/or Harness on a different door.
EEPROM ERROR	Internal EEPROM Error: Internal memory error.	Door does not work.	Replace the U30 Microprocessor Control.
ERROR_4	Electric Lock Error: Activation device was signaling the control to open door but the electric lock failed to unlock or bound up ten times.	Door does not work.	Reset U30 Controller by turning 120 VAC OFF then on again OR connect Handy Terminal & clear error message OR Turning ON/OFF switch OFF then ON again OR opening then closing panic breakout circuit.
ERROR_5	Recycle Error: Recycle was detected more than three times at same door position continuously.	Door does not recycle.	Reset the U30 Microprocessor Control by turning 120 VAC OFF then on again OR connect the Handy Terminal and clear the error message OR Turn the 'ON/OFF Switch" OFF then ON again OR open the closing panic breakout circuit.
ERROR_6	Interior Sensor Error: Sensor connected to the Black (61) wire is sending an error message to the U30 Microprocessor Control.	Door does not work but the electric lock works by means of a rocker switch.	Replace sensor (only applies to U-30 Microprocessor Controls with Nabco sensors).
ERROR_7	Exterior Sensor Error: Sensor connected to the Black/Red (62) wire is sending an error message to the U30 Microprocessor Control.	Door does not work but the electric lock works by means of a rocker switch.	Replace sensor (only applies to U-30 Microprocessor Controls with Nabco sensors).

Note: ERROR CODES may have been generated as the result of a hardware problem. If resetting the software as described above does not resolve the problem, cause of the hardware malfunction must be determined and corrected. Please contact NABCO Entrances, Inc. Toll free at 1-877-622-2694, for additional assistance.