

OVERVIEW

Fresco is an integrated touchscreen lighting control solution for dynamic spaces such as hotel ballrooms, conference rooms, museums, retail stores, houses of worship and restaurants. Fresco's thin profile and clean design enhances many commercial settings. Its glass-to-the-edge refinement and aluminum frame are a robust and modern improvement to architectural lighting control. Fresco delivers seamless control of traditional line-voltage dimming, switching, 0-10 V, DALI, nLight® and DMX for RGB and tunable white fixtures.

FEATURES

- On screen lighting design and setup, no computer required
- Lighting Control: forward and reverse phase dimming, 0-10 V, DMX (RGB/Tunable White), nLight® enabled luminaires (including nTune™), nLight power packs, and DALI
- 72 individual channels and 36 scenes to control lighting intensity, color and color temperature
- 65,000 zones per Fresco network
- Integral astronomic timeclock and on screen scheduling
- Direct DMX512 fixture control for single universe (optional)
- Automatic wake-up with proximity sensor
- Ethernet connection for remote configuration and control
- Integral Bluetooth® radio for wireless App control
- Partition status control for up to 24 rooms (Roomlink)
- Digital motion sensor, daylight harvesting, RS-232, contact closure and wallstation input from nLight devices
- Compatible with Fresco LMP dimming and switching cabinets (requires DMX option)
- Shade control integration capable (Lutron QS, Somfy, and MechoShade IQ)
- All device settings are stored on-board in non-volatile memory
- Integrates with Building Management Systems (BMS) through BACnet/IP

Government Procurement

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information

Warranty

Two-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



Fresco Greeting Screen (7" diagonal viewing area)



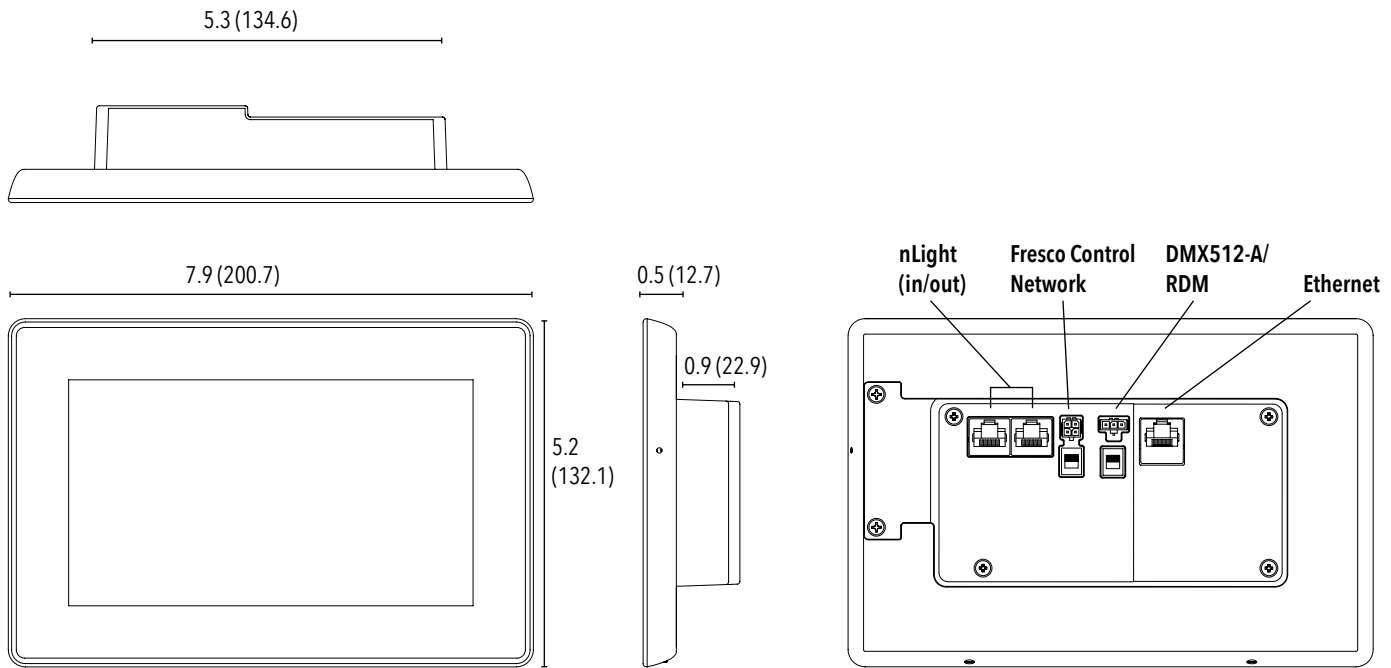
Fresco Homescreen



ORDERING INFORMATION

FCS				Example: FCS 7TSN X DBL			
FCS		7TSN					
Series		Model		Options		Finish	
FCS	Fresco Control System	7TSN	7" touchscreen with nLight port	[blank]	nLight only	DBL	Black
				X	DMX/RDM control	DWH	White
						DNA	Natural Aluminum

DIMENSIONS



Dimensions: in (mm)

SPECIFICATIONS

Electrical

Input Voltage: 18VDC-28VDC

Power: 6W max @ 24 VDC Class 2 Input

(Class 2 power supply provided with Fresco station)

Mechanical

- Width: 7.9 in (200 mm)
- Height: 5.3 in (135 mm)
- Depth: 0.5 in (13 mm)
- Viewable Area: 7.0 in (178 mm) diagonal
- Weight: 2.5 lbs (1.1 kg)

Installation

- Enclosure: 3 gang back box
- Fresco steel mounting ring provided with all required hardware
- Remote power supply included

Environment

- Ambient: 15 to 105 °F (-10 to 40 C)
- Storage: -10 to 145 °F (-20 to 65 C)

- Relative Humidity: 90% non-condensing
- Designed for permanent interior installation

Standards

- FCC Part 15
- IEC61000-4-2, +/-16kV air discharge
- ANSI E1.11-2008 DMX, ANSI E1.20-2006 RDM
- IEEE 802.15 Bluetooth
- IEEE 802.3 Ethernet
- RoHS compliant
- ISO 16484-5 BACnet/IP

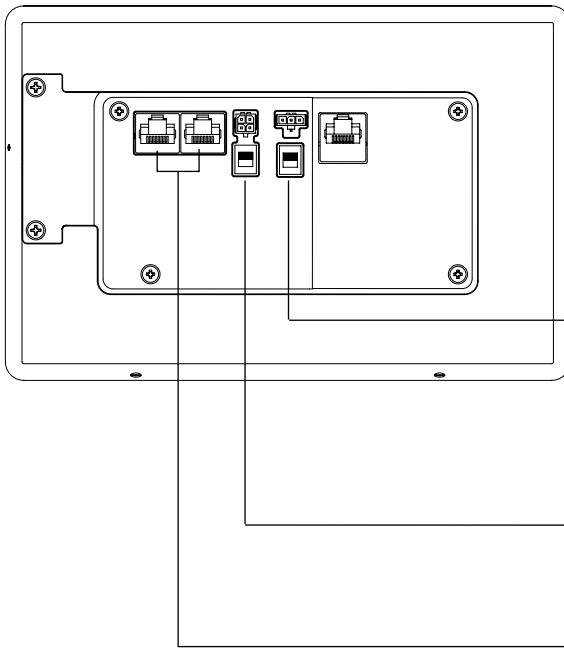
Performance

- Capacitive LCD backlit touchscreen
- Multi-touch control
- Proximity sensor wake-up
- 10 year battery backup for astronomic clock
- nLight link for 128 nLight devices
- One universe of DMX-512A/RDM (512 channels)
- Screen lockout pass code
- Adjustable backlight settings
- Full alpha-numeric scene and zone naming

Legal

- US Patent Nos. D729,793, D729,797
- Canada CA 154120S

SYSTEM CAPABILITY



DMX512-A/RDM

Controls up to one universe of DMX512-A compatible devices, including those that support RDM configuration. Supported fixture types include RGB and dynamic white. A complete list of compatible luminaires is available from Acuity Controls inside sales and support teams. Also used to connect and control up to 32 Fresco Lighting Management Panels.

Fresco Control Network (FCN)

Extend the network by adding additional Fresco touchscreens and integration devices such as the Fresco AVI for AV and shade control.

nLight®(in/out)

Connect up to 128 nLight devices including nLight-enabled luminaires, nPODMs, nPOD GFX, power packs, occupancy sensors, daylight sensors, nIO devices, and nLight ARP Panels. Two nLight ports each provide 40mA power and communication. Fresco directly configures and manages the nLight devices and does not support nECY/nGWY2 (Controller), nBRG (Bridge), nPWDMX SNAPSHOT, or SensorView™ Software.

SYSTEM NOTES

- Fresco controls 1 universe of DMX/RDM devices
- Fresco controls 1 zone of nLight with 128 global channels of control
- Fresco touchscreens are connected via the Fresco Control Network
- Fresco Lighting Management Panels use the DMX network for communication

DMX512-A/RDM

All DMX wiring must follow the DMX512-A/RDM standard (ANSI E1.1). It must be daisy chained and terminated per the standard.

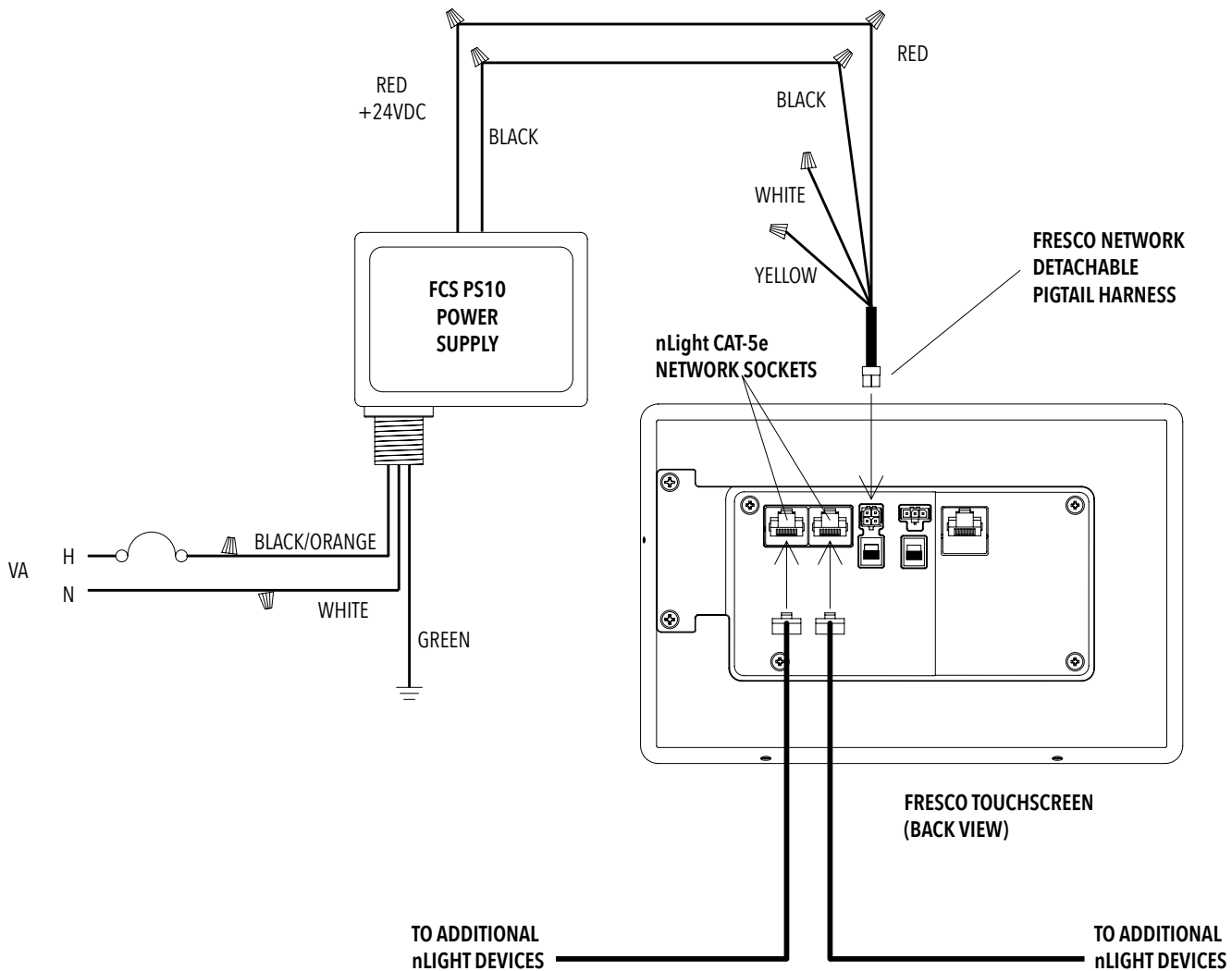
nLight®

All nLight devices are connected via CAT-5e wiring and must be daisy chained following standard nLight installation methods.

Fresco Control Network (FCN)

RS-485 network with 2 power and a twisted and shielded data pair. Connecting all Fresco touchscreens, dimming and switching cabinets and other network devices, FCN must be daisy chained and terminated

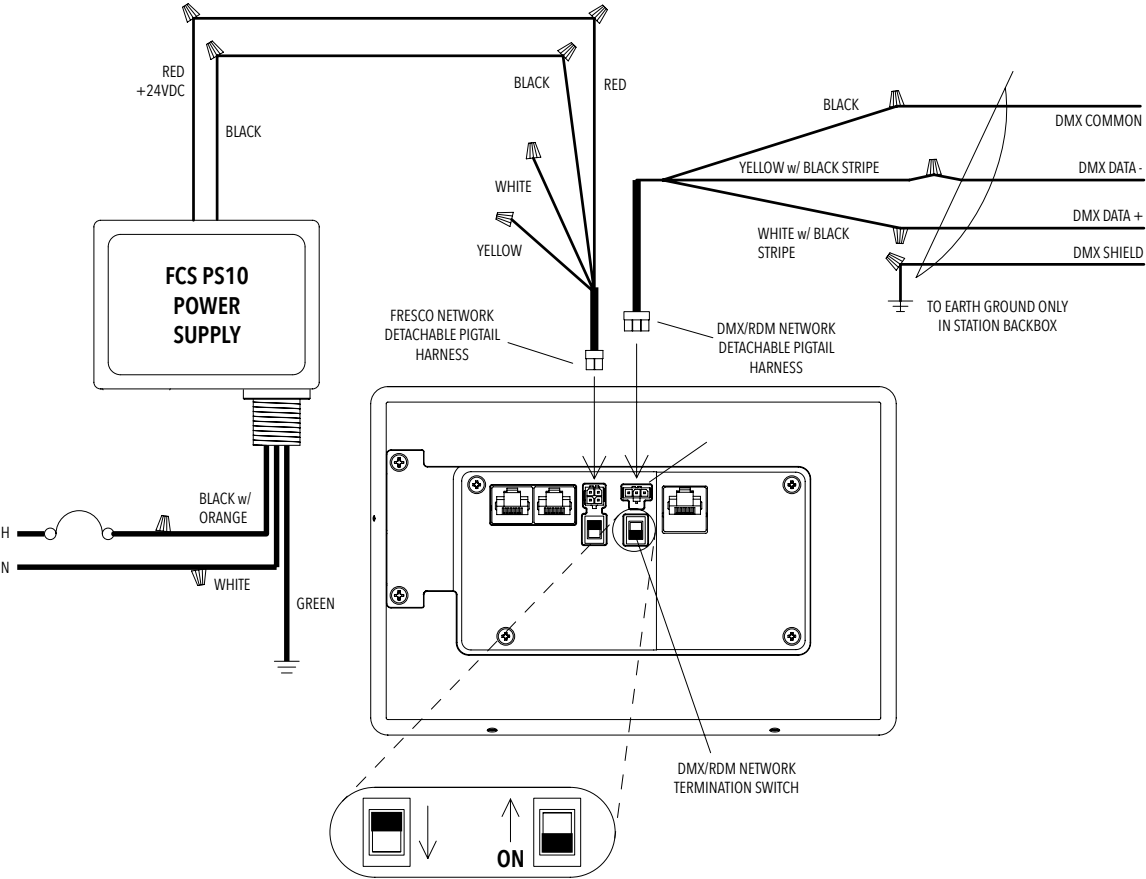
WIRING DETAILS - 24VDC and nLight Network



WIRING NOTES

- Fresco Requires +24VDC, 6W max. Use accessory power supply provided with Fresco. Each Fresco touchscreen requires a dedicated power supply.
- 2 nLight ports support daisy chaining, Fresco may be located in any position on the nLight link for proper operation.
- When connecting additional Fresco network devices (touchscreens and Fresco AVI) only the White, Yellow, and Black wires for communication are used.

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DMX512-A/RDM WIRING

- Connects to the provided plug in 3-position harness.
- Color & signals:
 - Black: Common
 - Yellow with black stripe: DMX Data -
 - White with black stripe: DMX Data +

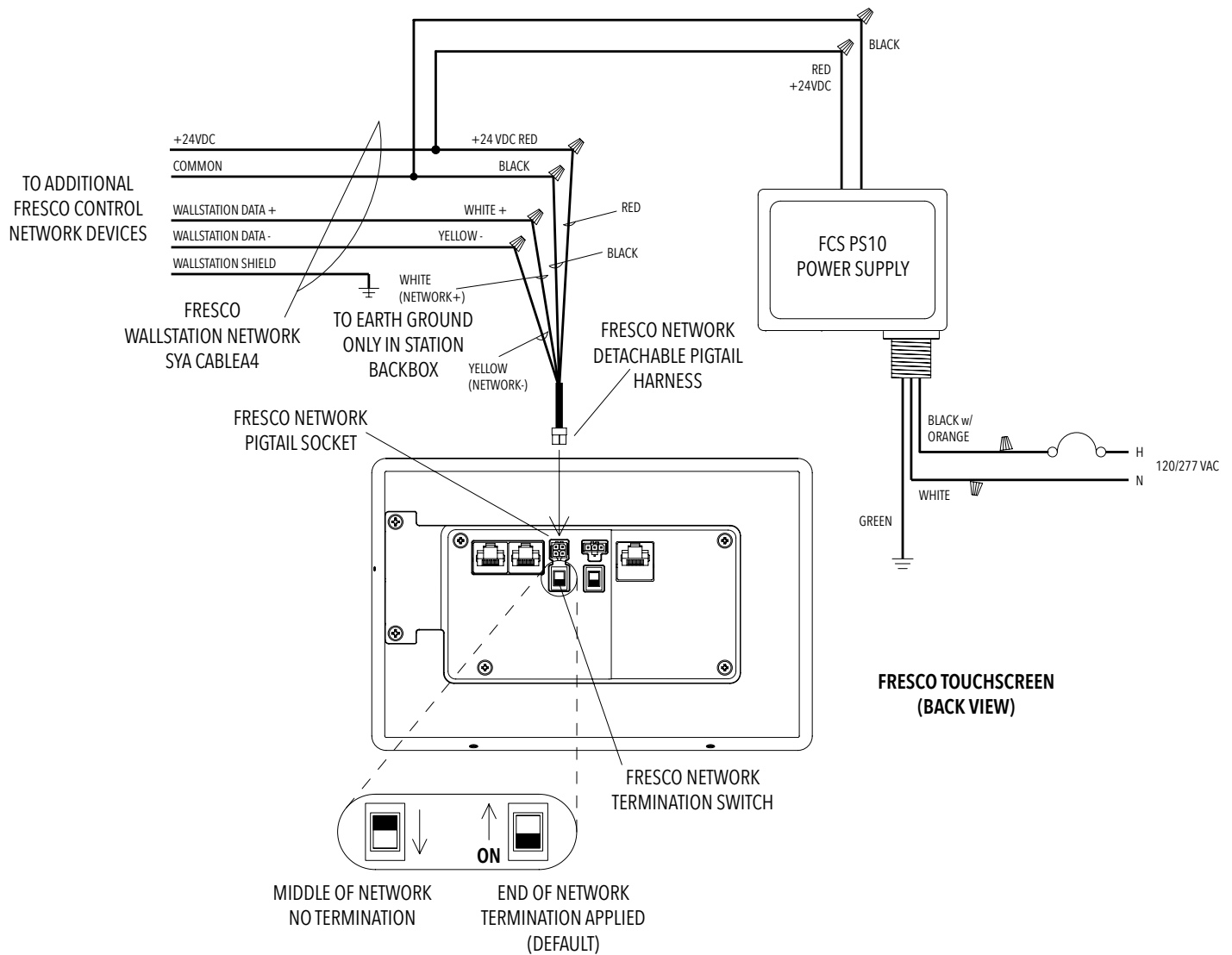
DMX/RDM PIN OUT WITH CAT-5/6

Pin#	Wire Color	Purpose
1	white/orange	Data +
2	orange	Data -
3	white/green	Data + (pair 2)
4	blue	Not assigned
5	white/blue	Not assigned
6	green	Data - (pair 2)
7	white/brown	Common
8	brown	Common (pair 2)

DMX/RDM PIN OUT WITH XLR

XLR Pin#	Purpose
1	Common
2	Data -
3	Data +
4	Data - (pair 2)
5	Data + (pair 2)

WIRING DETAILS - 24VDC and nLight Network



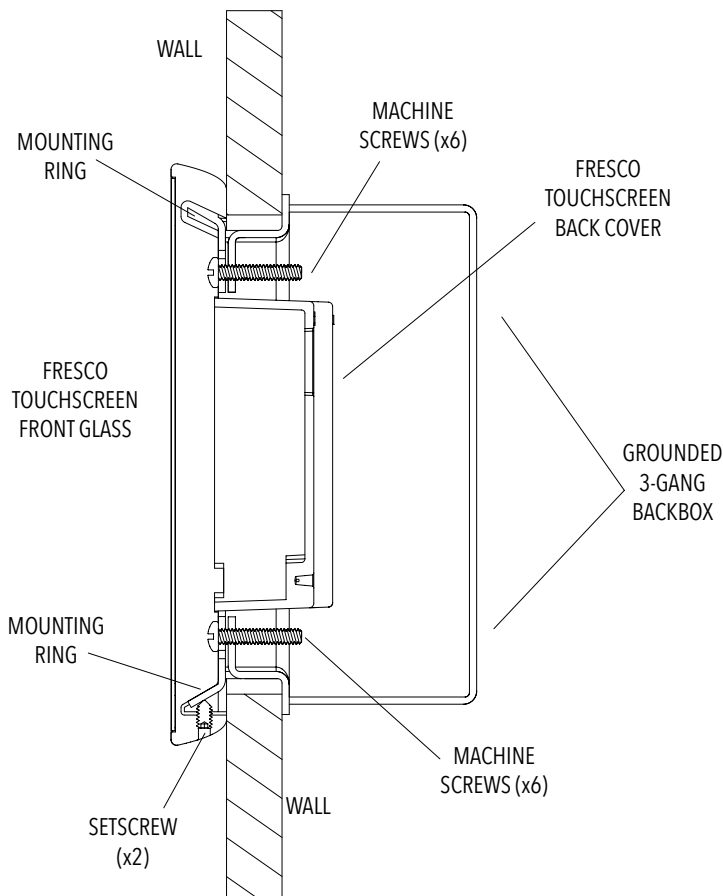
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Fresco Control Network (FCN) WIRING

- Connects to the provided plug in 4-position harness.
- Color & signals:
 - Red: +24 VDC
 - Black: Common
 - Yellow: Data -
 - White: Data +

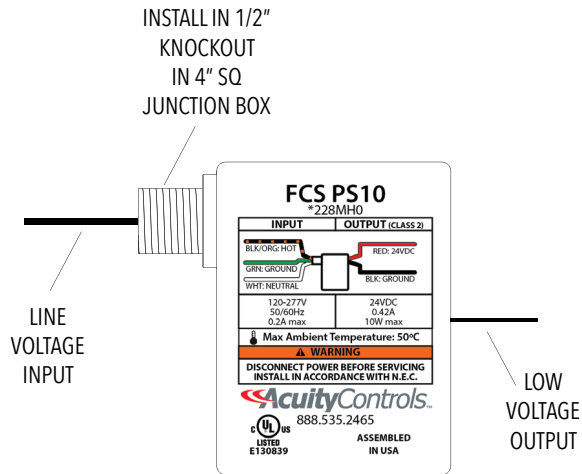
1. Complete all electrical installations and finish installing a 3-gang backbox
2. Install the Fresco galvanized steel mounting ring on the 3-gang backbox using hardware provided (6 machine screws). Mounting ring is provided with the Fresco Touchscreen
3. Optional: if the box is not flush to the finished wall surface use two drywall screws (not provided) on tabs to pull backbox forward
4. Connect all wiring harness(es) and CAT-5e cables to the back of Fresco Touchscreen
5. Align and hang Fresco station on the top of the mounting ring
6. Slightly rotate the Fresco station upwards, then rotate the station towards the wall and into the backbox.
7. The Fresco station will be properly located when it is flush to the wall
8. Tighten the 2 threaded set screws on the bottom of the Fresco station using a 1/16" allen key (provided)



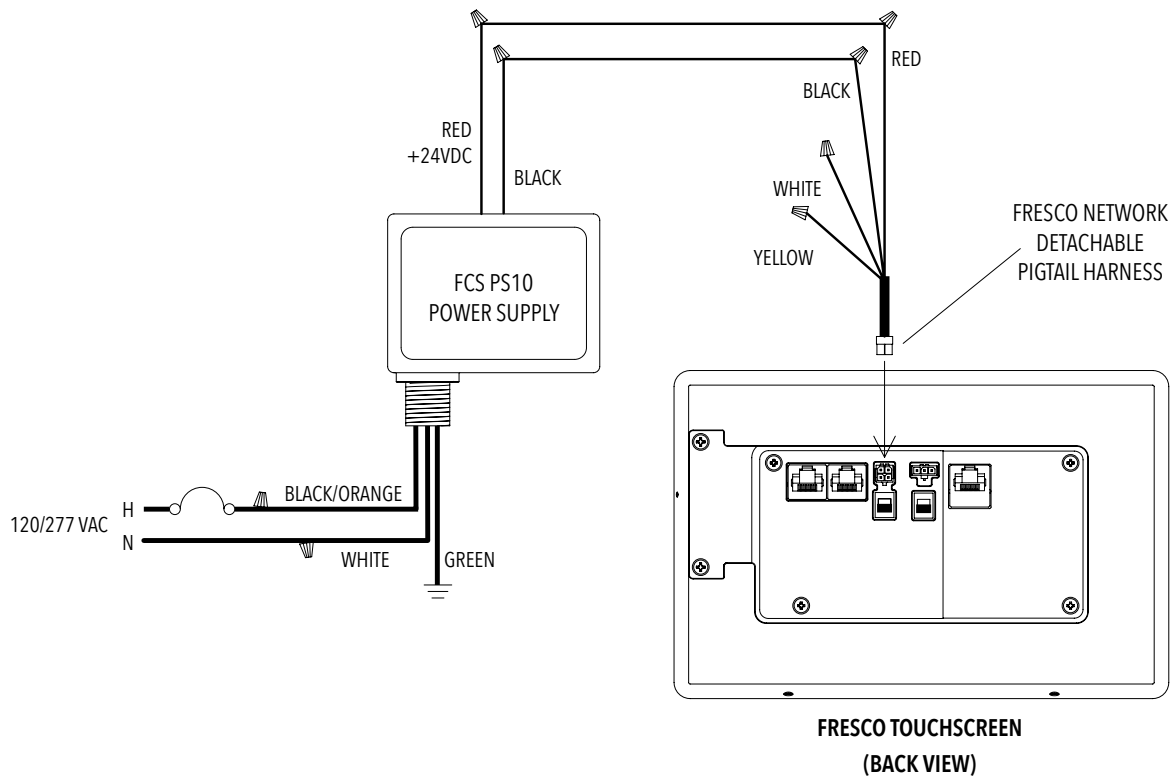
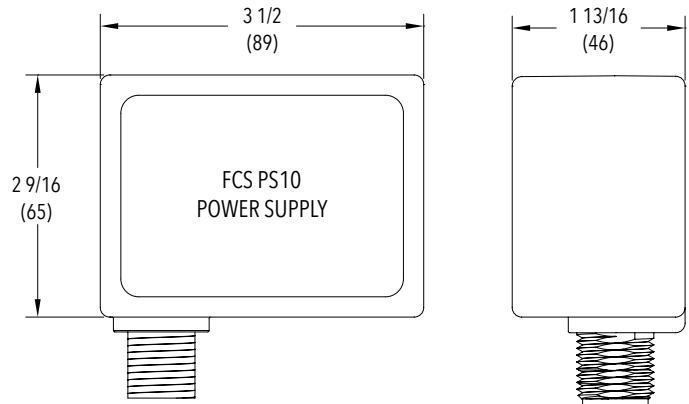
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FRESCO INSTALLATION

Fresco touchscreens are provided with a 24 VDC Class 2 power supply. The Fresco power supply (FCS PS10) is intended for use with 120-277V, 50/60Hz circuits and draws 40 W, max. The power supply requires installation with a listed electrical enclosure.



FCS PS10 Dimensions (inches/mm)



WIRING NOTES

1. Mount through 1/2" KO in a 4" square junction box. Secure with lock nut.
2. Connect line voltage wires within junction box (120 or 277VAC only).
3. Connect the Class 2 low voltage 24VDC wires to the Fresco station's pigtail harness red and black wires.