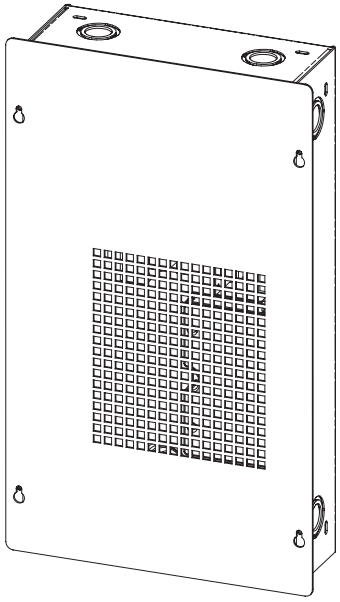
Softswitch128® Expansion Module

The Softswitch128® Expansion Module adds scalability to Lutron® Softswitch128® switching system. The Expansion Module allows a system to maintain a single programming controller and timeclock with an increased number of switched circuits, panels, and control stations.



Features

- Provides increased number of links: 3 links with up to 32 control stations per link, 96 control stations total per system.
- One master time clock and one programming point for the entire expanded system.

Job Name:	Model Numbers:	
Job Number:		

Specifications

Standards

- UL® Listed (Reference: UL File E42071)
- CSA Certified
- Seismic Certified (Test Method AC156. Reference OSHPD Preapproval OSP-0215-10)
- Other certificates may apply

Power

- Input voltage: 120/277 V~ or 220-240 V⎓ 50/60 Hz
- Link voltage: 24 V⎓ Full Wave

System Communication and Capacity

- Three (3) daisy-chained, low-voltage IEC PELV/NEC® Class 2 links connect Expansion Module to switching panels and control stations
- One Expansion Module per system

Physical Design

- Enclosure: NEMA-Type 1, IP-20 protection; 16 U.S. Gauge Steel. Indoor use only.
- Weight: 27 lb (13 kg)
- Seismic Certification Limits: S_{DS} = 2.5 g, z/h = 1.0, I_P = 1.5. Contact Lutron for details.

Mounting

- Surface mount or recess mount between 16 in (40 cm) studs

Environment

- 32 to 104 °F (0 to 40 °C). Relative humidity less than 90% non-condensing.

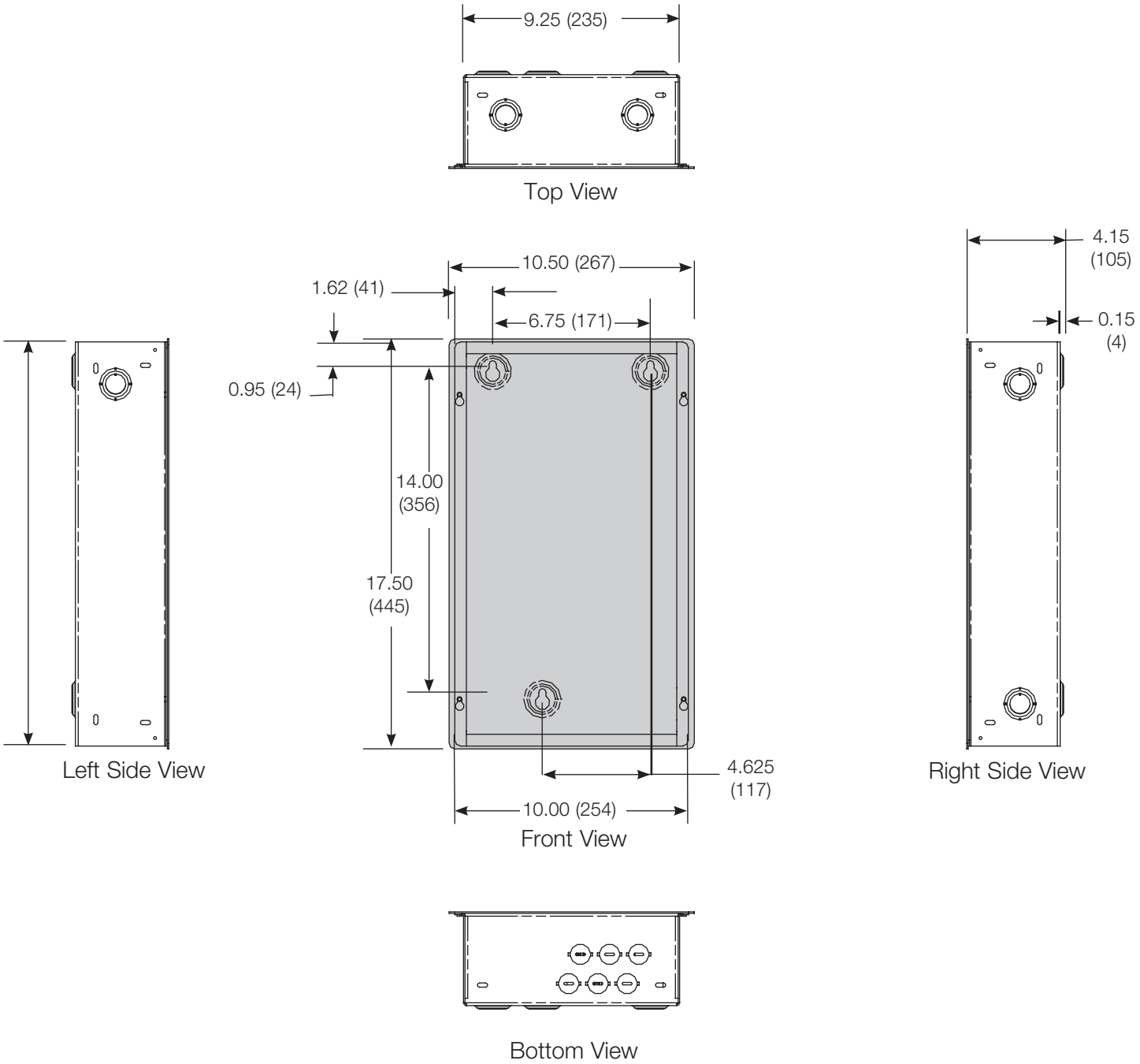
Model Numbers

Model Number	Feed Voltage
XPS-E-120/277-FT	120 or 277 V~
XPS-E-240FT-CGP1728	220-240 V⎓

Job Name:	Model Numbers:	
Job Number:		

Dimensions

All dimensions shown as: in (mm).



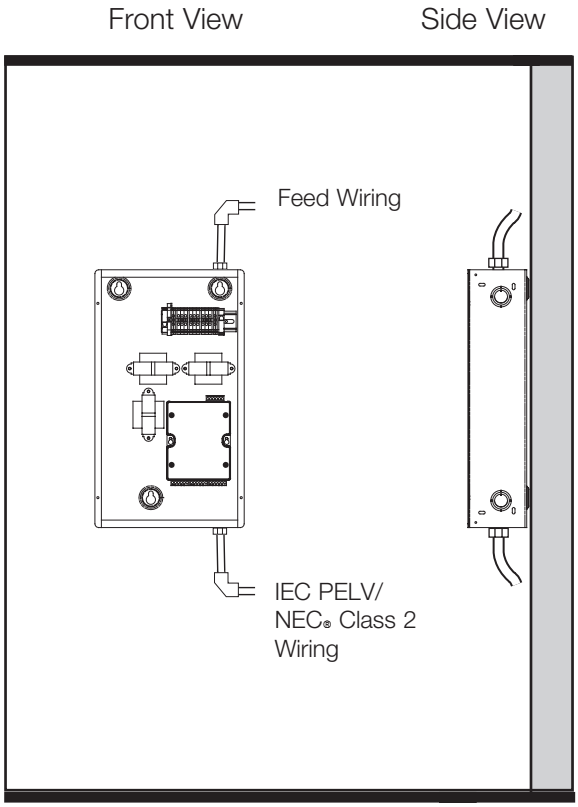
Job Name:	Model Numbers:	
Job Number:		

Mounting

- For indoor use only.
- Consult dimensions page for module size, conduit knockouts, and mounting holes.
- Mount where ambient temperature is 32 to 104 °F (0 to 40 °C).
- Reinforce wall structure for weight and local codes as necessary.
- Mount module so line (mains) voltage wiring is at least 6 ft (1.8 m) from sound or electronic equipment and wiring.
- Mount within 7° of true vertical.

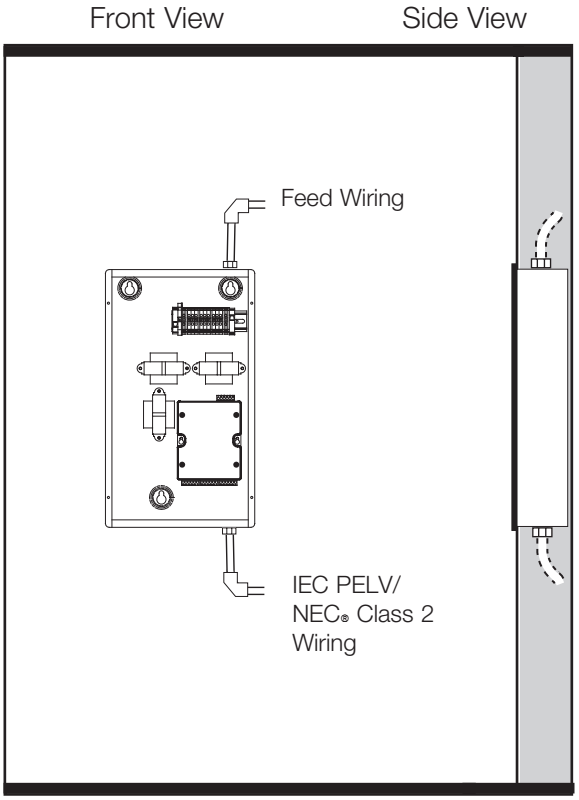
Surface Mounting

- Lutron recommends using 0.25 in (6 mm) mounting bolts.
- Leave 1.25 in (38 mm) clearance on each side of module for cover.



Recess Mounting

- Mount module from flush to 0.125 in (3 mm) below finished wall surface.
- Leave 1.25 in (38 mm) clearance on each side of module for cover.

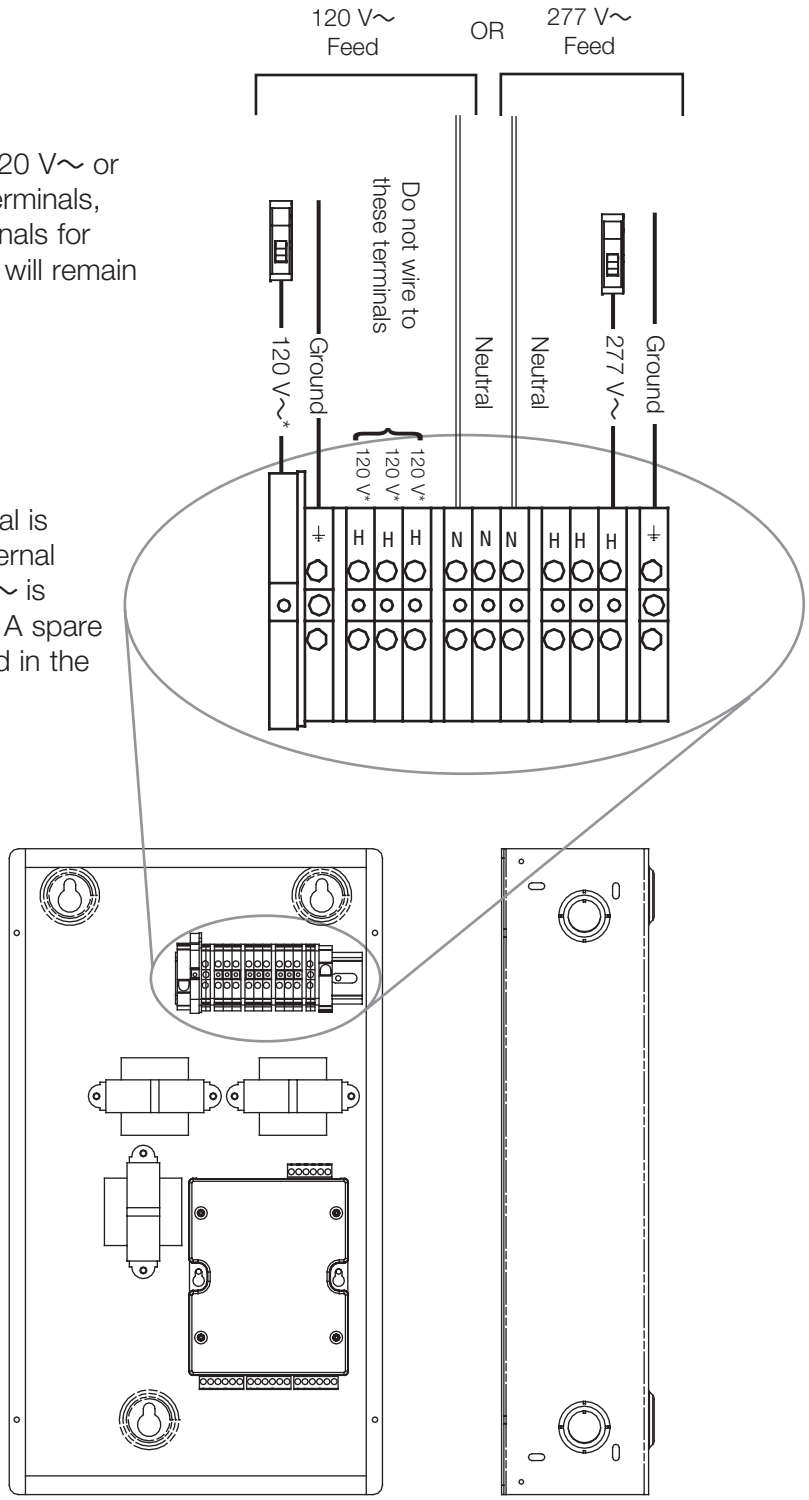


Wiring Overview - 120/277 V~

XPS-E-120/277-FT model number may be wired with either 120 or 277 V~.

Wire to either the 120 V~ or the 277 V~ feed terminals, not both. The terminals for the unused voltage will remain empty.

*120 V~ Hot terminal is protected by an internal fuse in case 277 V~ is mistakenly applied. A spare fuse is also supplied in the module.



Job Name:	Model Numbers:	
Job Number:		

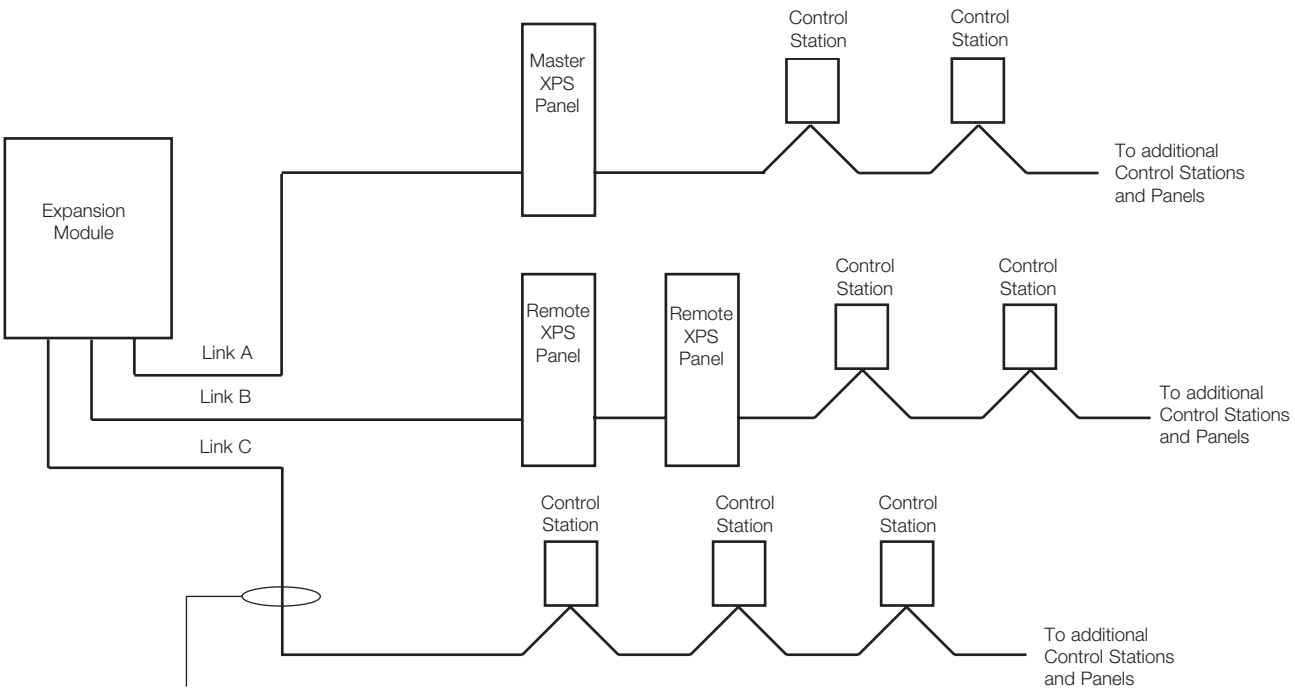
Low-Voltage IEC PELV/NEC® Class 2 Wiring

- Daisy-chain the Expansion Module to the IEC PELV/NEC® Class 2 Link that connects switching panels to control stations.
- There are three separate daisy-chain links.
- Make daisy-chain connections to the low-voltage IEC PELV/NEC® Class 2 Link terminals inside the Expansion Module.
- Do not use T-taps. Run all wires in and out of the terminal block.
- Each terminal accepts up to two 18 AWG (1.0 mm²) wires.
- LEDs A, B, and C light when each of the the IEC PELV/NEC® Class 2 Links are installed correctly, respectively. LEDs blink once per second.
- Install Link Terminators (LT-1) at the start and end of each IEC PELV/NEC® Class 2 Link.

Important Notes

- The Master Softswitch128® Panel may be any one panel on the three links. All Softswitch128® Panels have the capability to be a master.
- 32 Control Stations may be installed per link.
- It is permissible for a link to consist of only control stations.
- The Expansion Module may or may not be at the end of any control link. It can be connected in the middle of the link.

Example of IEC PELV/NEC® Class 2 Wiring



IEC PELV/NEC® Class 2 wiring link requires:

- Two 12 AWG (2.5 mm²) conductors for control wiring.
- One shielded, twisted pair 18 AWG (1.0 mm²) for data link.

Job Name:	Model Numbers:	
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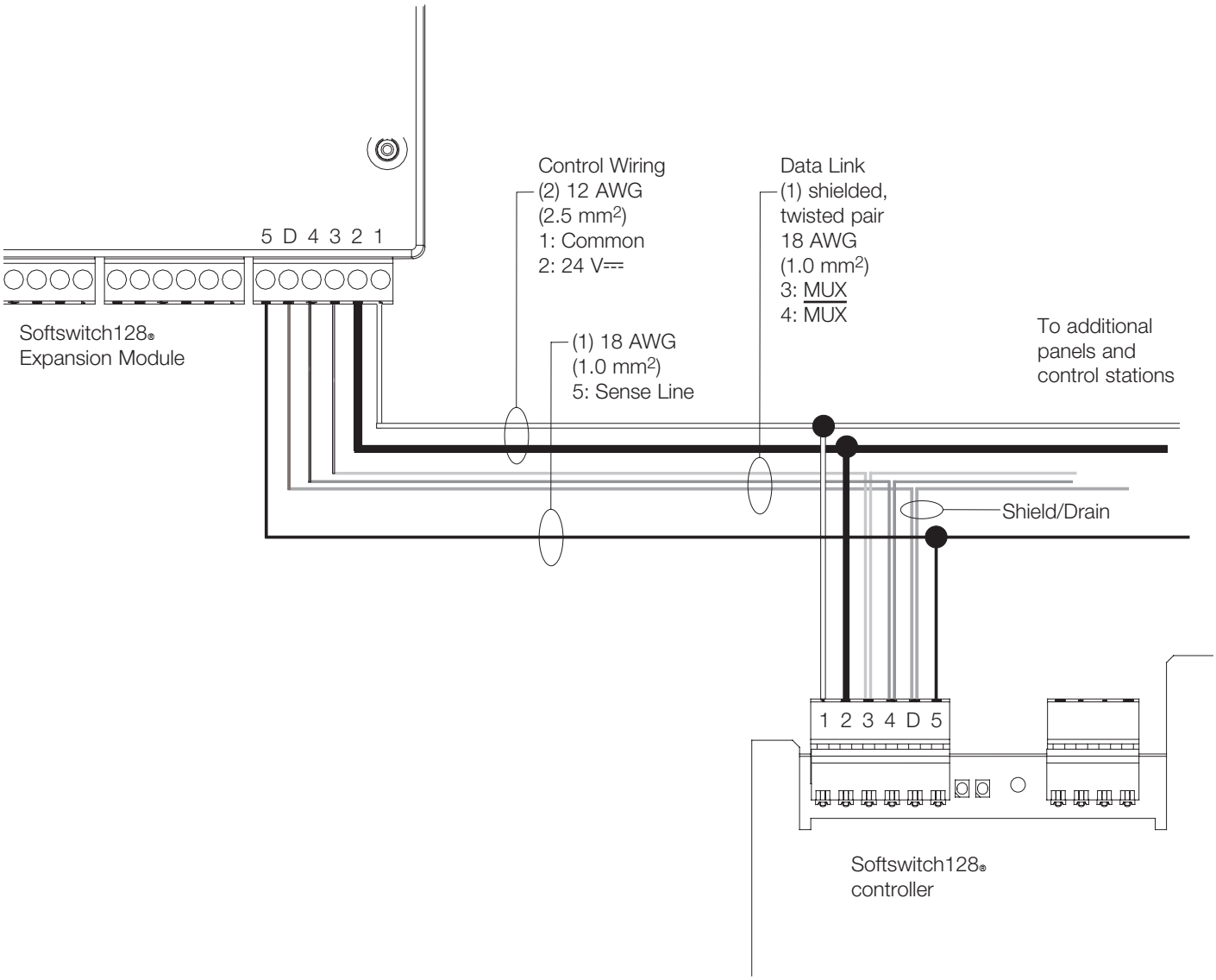
IEC PELV/NEC® Class 2 Wiring: Expansion Module to Switching Panel



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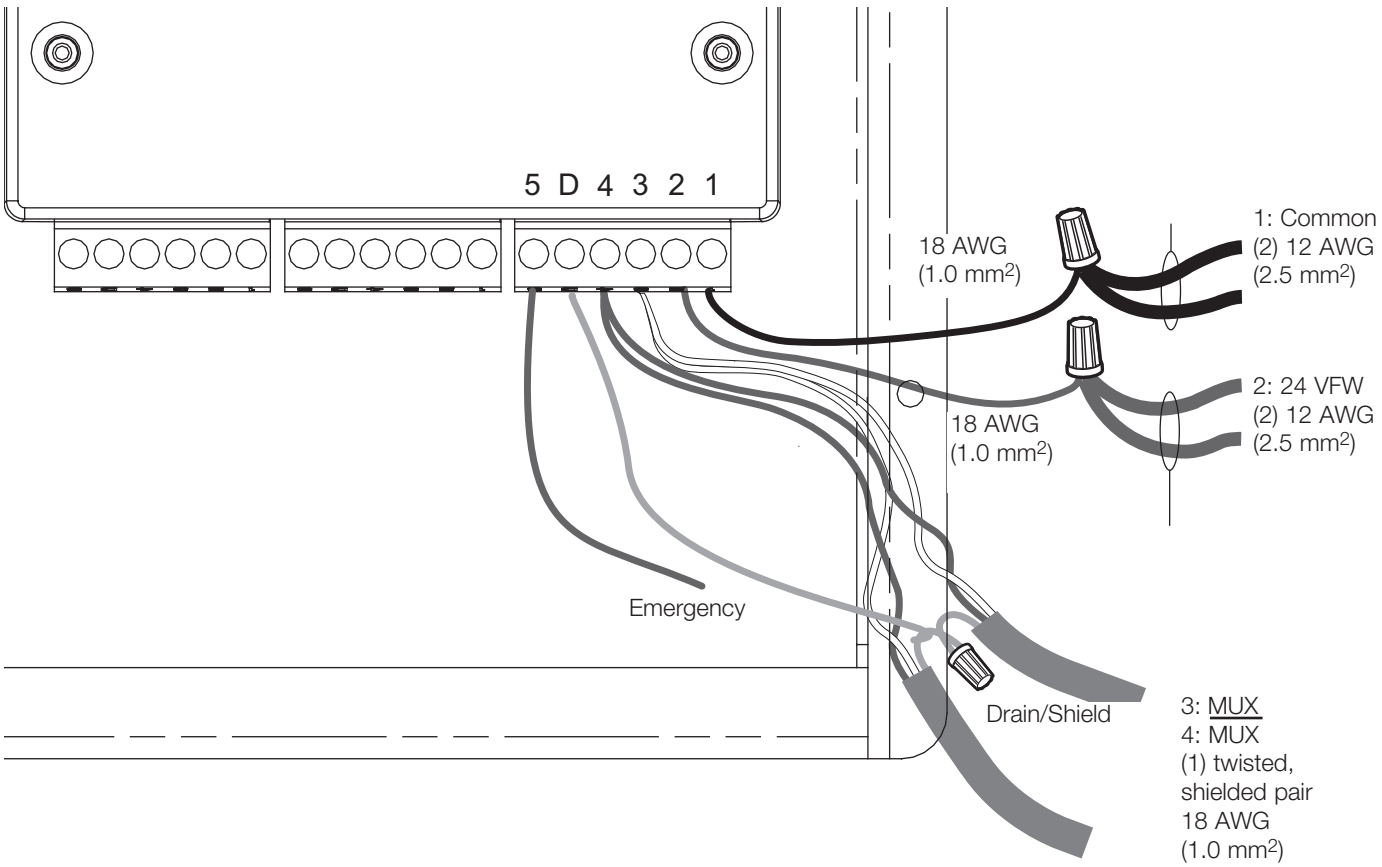
IEC PELV/NEC® Class 2 Terminal Connections

- Two 12 AWG (2.5 mm²) conductors for common (terminal 1) and 24 V⎓ (terminal 2). These will not fit in terminals. Connect as shown.
- One twisted, shielded pair 18 AWG (1.0 mm²) for data link (terminals 3 and 4).
- Connect Drain/Shield as shown. Do not connect to Ground (Earth) or Wallstation/Control interfaces. Connect the bare drain wires and cut off the outside shield.
- If Emergency panels are present in the system, connect Emergency Sense line to terminal 5 on Expansion Module link terminal(s).

For the IEC PELV/NEC® Class 2 link, use GRX-CBL-46L or equivalent. The cable consists of:

- Two 12 AWG (2.5 mm²) wires.
- One 18 AWG (0.625 mm²) shielded, twisted pair.
- One 18 AWG (1.0 mm²) wire for Emergency Sense.



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