Installation Sheet

RDC-PDC Control Card, Dual or Three Phase (120 or 240 VAC)

The RDC-PDC Control Card module controls up to six dimmable channels with six satellite connectors (for RDM series dimmer or switching modules). The RDC-PDC is controlled by AXlink, PROlink, or by dry contact closures. The RDC-PDC is designed for use with Radia enclosures, in a modular digital dimming system. The module's 120 and 240 VAC ratings are CE, UL, and C-UL approved.

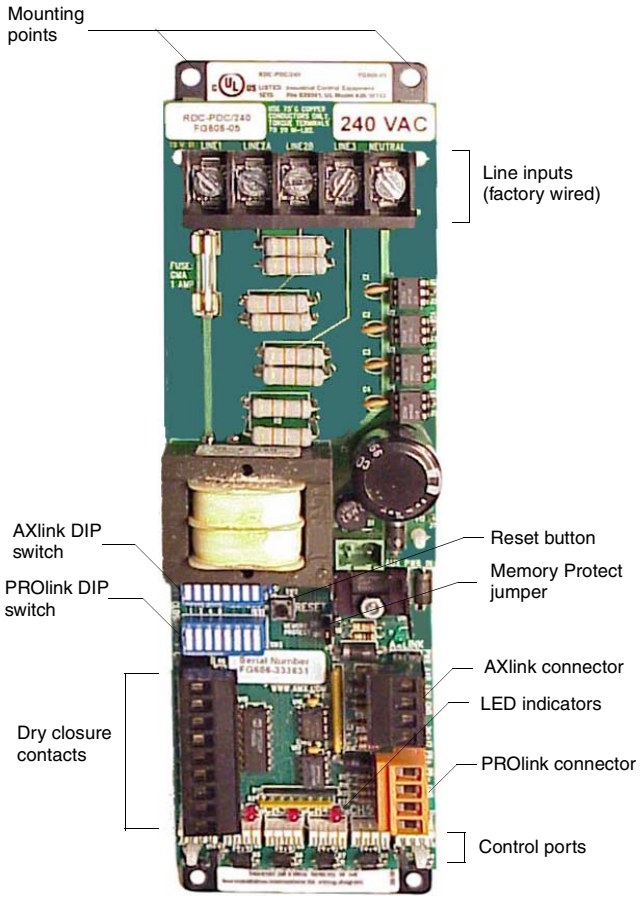


FIG. 1 RDC-PDC control card

RDC-PDC UL and C-UL Ratings:

Control Input:

- AXlink
- PROlink
- Eight dry closures

Control Output:

- Six control ports
- Max. total control current at 300 mA

Power Inputs:

- Line 1 (channel 1 and 4)
- Line 2 A (channel 5)
- Line 2B (channel 2)
- Line 3 (channel 3 and 6)
- Neutral

Specifications:

- Dimensions (HW): 10.0" x 2.75" (254.0 mm x 69.85 mm)
- 12 VDC power (optional)
- Torque terminals to 20 in-lbs. (2.3 N/M)
- Max. wire size: 10 AWG
- Wire stripping length: 0.28" (7 mm)
- Weight: 1.5 lbs. (0.68 kg)
- Power consumption: 50 mA @ 120 VAC
  25 mA @ 240 VAC

Button/Jumper Information:

- RESET button: By pressing the RESET button, located on the RDC-PDC circuit board, it is possible to restart the processor without having to power-down the unit or disconnect AXlink or PROlink. RESET does not affect saved presets or curve settings.
- MEMORY PROTECT on/off jumper: The MEMORY PROTECT jumper is set to Off by default. To protect saved curve settings and presets from accidental recording, put the jumper in the On position.

Caution: Pre-Installation Notes

- All Class 1 wiring must be connected to proper terminals.
- All control wiring must be connected to proper terminals.
- Disconnect power while installing or connecting the unit.
- Keep the top and bottom air vents clear at all times.
- Test loads for shorts before connecting.
- Use low-voltage wires with a 300 volt rating or greater.
- Use field-installed copper conductors.
- All electrical ratings are for continuous duty.
- For indoor use only.
- AC lighting loads only.

Connecting RDM Series to the AMX Lighting Master

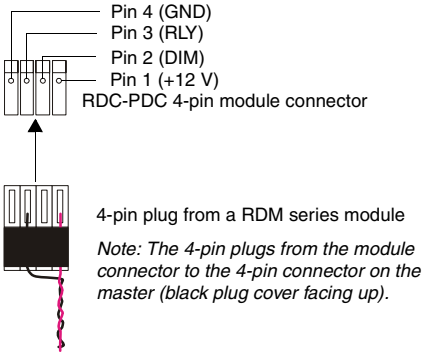


FIG. 2 Connecting RDM series

Connecting AXlink

Connect the 4-pin captive-wire AXlink connector from the RDC-PDC to the Central Controller for AXlink control of the dimming system.

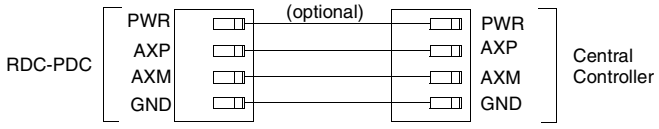


FIG. 3 AXlink wiring

Connecting PROlink:

Connect the orange 4-pin captive-wire PROlink connector from the RDC-PDC to a PRO-DP8 PROlink wall panel.

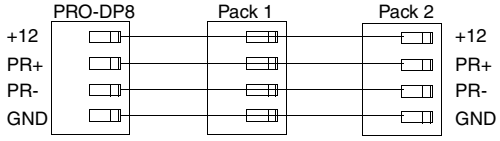
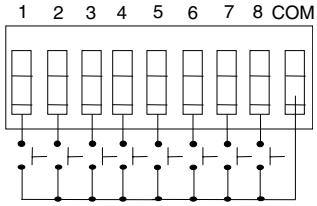


FIG. 4 PROlink wiring

Connecting Dry Closures

Use the 8 (+ common) dry closures with a WPD8 eight-button wall panel.



Each contact (1 - 8) is pre-programmed with a default preset.

Refer to the *AMX Lighting Control System* instruction manual for details on dry closure default presets and recording new presets.

FIG. 5 Dry closures connection

Each contact closure connection (1 - 8) is pre-programmed with a default preset. The table below shows the default presets for each contact closure.

Dry Closure Default Presets	
Contact Closure	**Default Function**
1	Channel 1 at 100% in 1 second
2	Channel 2 at 100% in 1 second
3	Channel 3 at 100% in 1 second
4	Channel 4 at 100% in 1 second

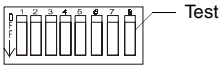
Dry Closure Default Presets (Cont.)	
5	Channel 5 at 100% in 1 second
6	Channel 6 at 100% in 1 second
7	Pack on (channels 1-6)
8	Pack off (channels 1-6
All other channels are undefined.	

Setting AXlink and PROlink Address Numbers:

AXlink Address

Set the AXlink address number (1-255) for the RDC-DC. This number must match the device number in your Axcess program.

PROlink Address

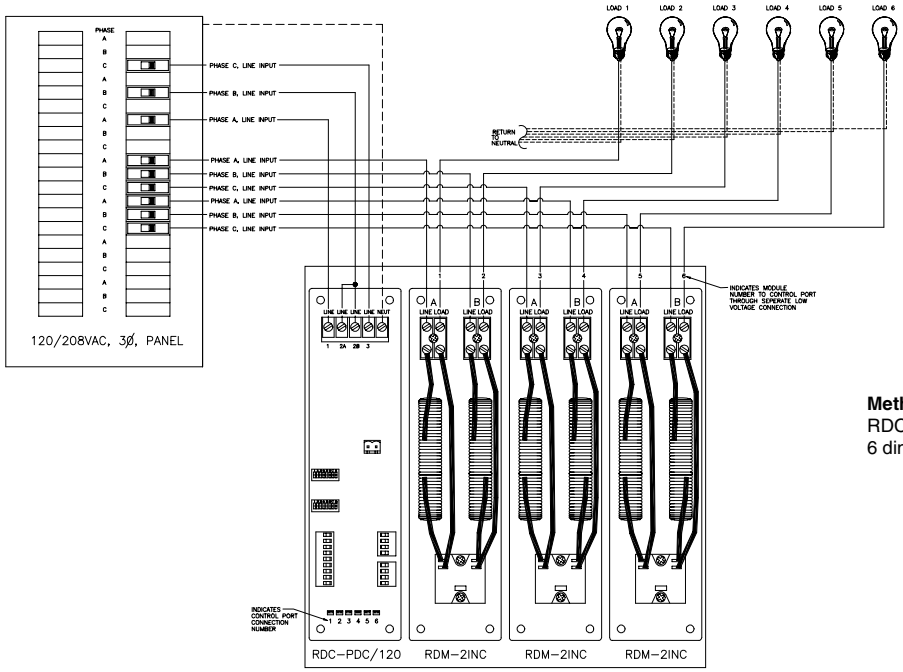


Use the PROlink DIP switch to set the PROlink address number for the RDC-DC (1-10).

Pin 8 on the PROlink DIP switch is a test switch that turns all circuits on to full.

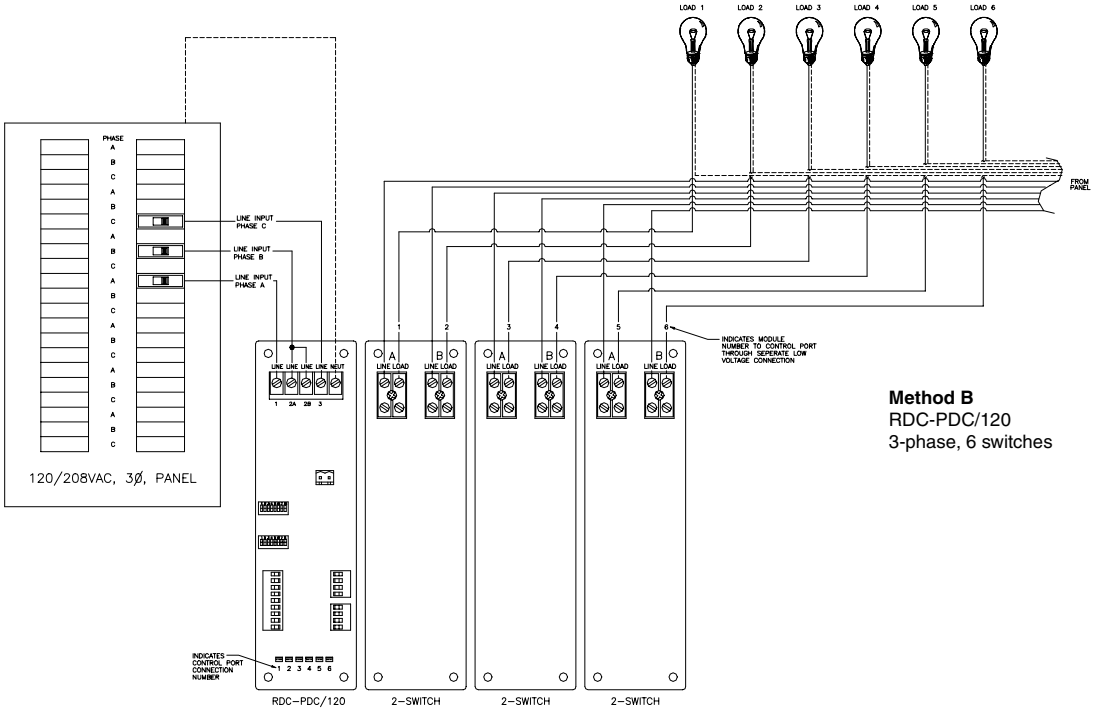
FIG. 6 Setting AXlink and PROlink address numbers.

Lighting Application Drawings



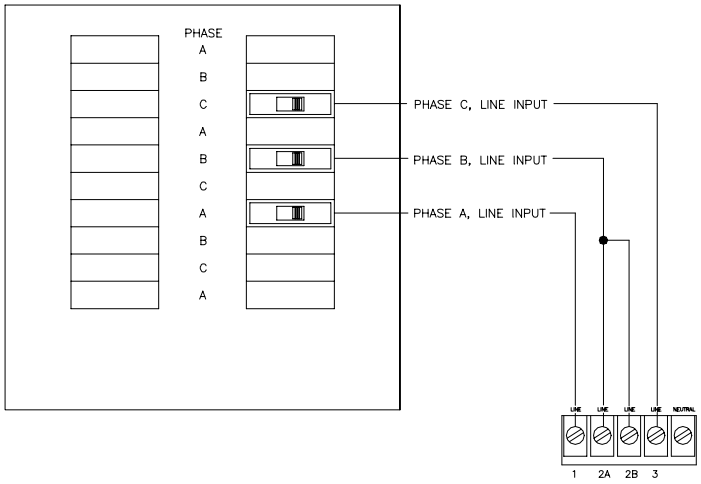
Method A
RDC-PDC/120, 3 Phase
6 dimmers, 0 switches

FIG. 7 Method A



Method B
RDC-PDC/120
3-phase, 6 switches

FIG. 8 Method B

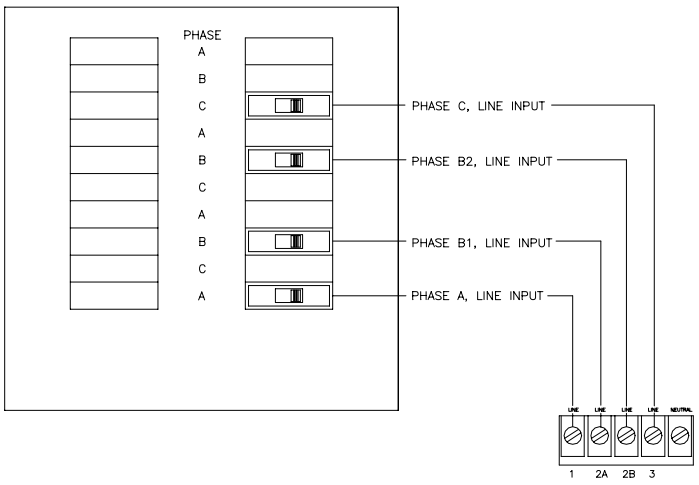


Method C
Three phase,
120/208 VAC,
4 wire + G

THREE PHASE, 120/208 VAC, 4W + G

PHASE A - Controls Dimmers 1 and 4
PHASE B - Controls Dimmers 2 and 5
PHASE C - Controls Dimmers 3 and 6

FIG. 9 Method C



Method D
Three phase,
120/208 VAC
5 wire +G

THREE PHASE, 120/208 VAC, 5W + G

PHASE A - Controls Dimmers 1 and 4
PHASE B1 - Controls Dimmer 5
PHASE B2 - Controls Dimmer 2
PHASE C - Controls Dimmers 3 and 6

FIG. 10 Method D

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