Digital Lighting Systems, Inc.

DigitalLighting.com

PD216-AN10

0-10V analog control

2 Channel x 2000 W Dimmer & Switch Packs

USER'S MANUAL

PD216-AN10
04/25

PD216-AN10 Load Driver Module Information

Figure 1 - PD216-AN10 LDM Detail

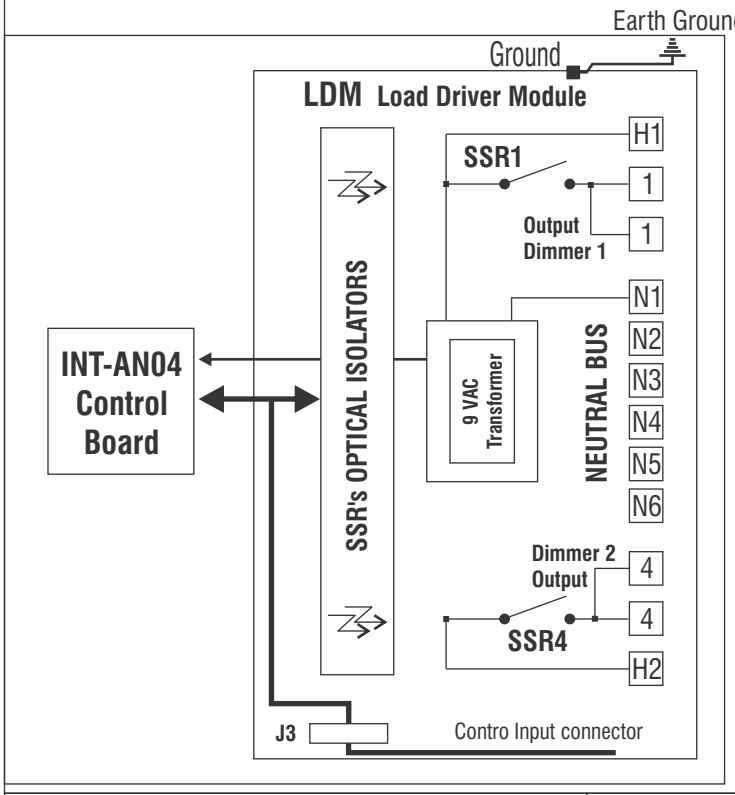


Table 1 - Terminals Definition

NAME	DESCRIPTION
1	Output Of Solid-State Relay #1
4	Output Of Solid-State Relay #4
H1	Hot Line Feed For Relay 1.
H2	Hot Line Feed For Relay 4.
N1-N6	Neutral Bus Connections.

Table 2 -
Absolute Maximum Electrical Ratings

Electrical Characteristic	Terminal	Maximum
Relay Load Current	1 & 4	16 Amps.
Input Current For Relay 1	H1	20 Amps.
Input Current For Relay 4	H2	20 Amps.
Input Voltage	H1-H2	120 VAC, **1-Phase**.

Specifications:

The **PD216-AN10** is a 2 x 2000 Watts @ 120 VAC dimmer pack which can be controlled either by a 100 KOHM potentiometer for each dimmer or by a standard 0-10 V analog signal from a sinking controller.

Control Input specifications:

Sinking signal 1 mAmp.

Response range : 1 V = 0% ; 10 V = 100 %

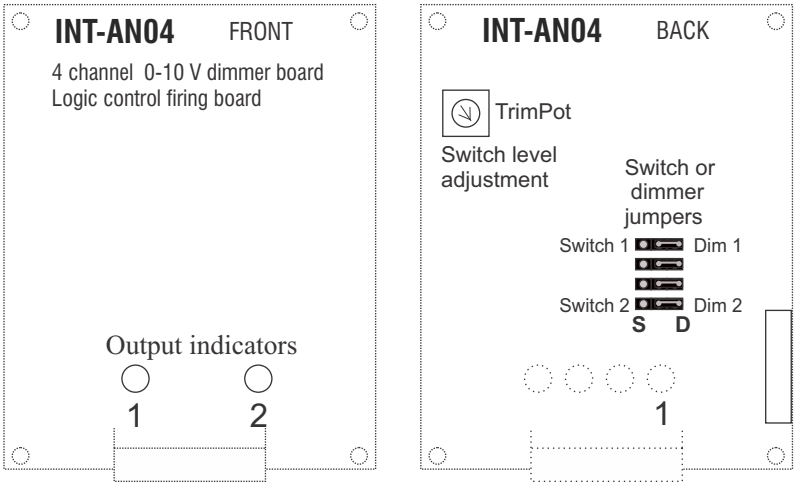
Dimmer power specifications:

Operating Voltage: 120 VAC

Inputs : 2 x 20 Amp Breakers on same phase

Outputs; 2 x 2000 Watts

Figure 2 - **INT-AN04** control board



Each channel of the PD216-AN10 could be set to dim or switch.
4 Jumpers, 1 for each channel, are located on the back of the front cover.
Place jumper on D side for normal 0-10V dimmer operation, place jumper on S side for switch operation.
Switching control Voltage level could be set from 0 to 10 V with the TrimPot.

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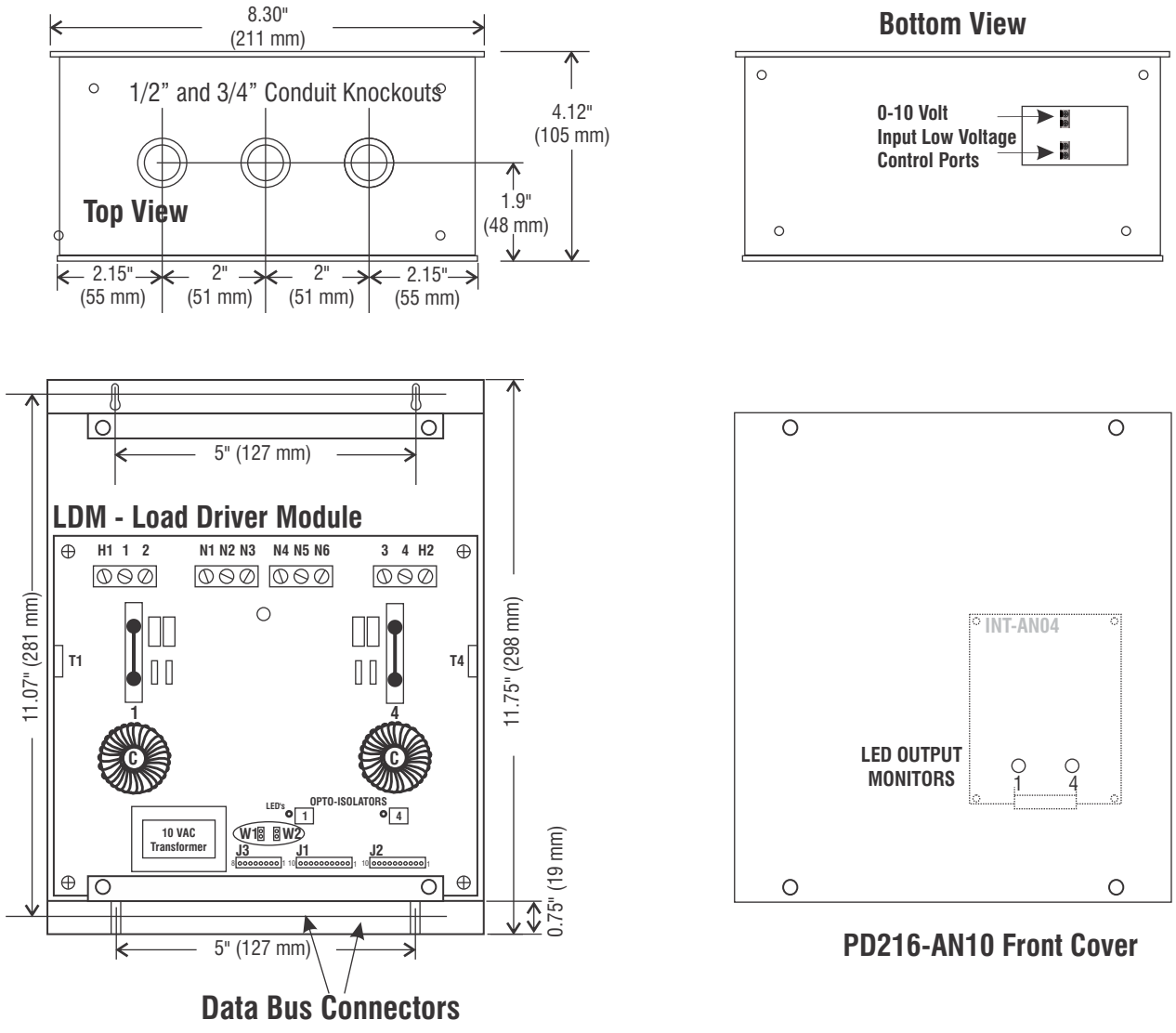
Enclosure Installation

Surface mount the dimmer pack in a well ventilated area where the ambient temperature does not exceed 104° F for full load operation. Allow 2" of side clearance for proper air circulation and servicing. Installation clearance shall meet local and/or NEC code requirements. Enclosures may be attached to the wall or other mounting surface by holes in the heat sink flanges. Refer to the drawings below (FIGURE 3) for the correct dimensions. Conduit shall be pulled to the top of the dimmer packs.

NOTE

The **PD216-AN10** may create a slight buzzing noise and should not be located where this is objectionable.



PD216-AN10 (LDM) Load Driver Module

Figure 3 - PD216-AN10 Dimensional Diagram

PD216-AN10 General Wiring Instructions

Wiring Notes

- DO NOT EXCEED 1920 W (16 A.) per output @ 120VAC.
- All wiring From control to dimmers is low voltage (NEMA Class 2)
- **PD216-AN10** may be fed by one or two 20 A circuits for maximum outputs.
- **Both breakers must be on the same power phase.**
- **CAUTION: DO NOT** attempt to parallel outputs to increase capacity.
- Each load must have its own Neutral wire for full load operation.
- All line voltage wires must have copper conductors of adequate Gauge with 90° C wire insulation.
- Test loads directly before connecting to **PD216-AN10**.

Figure 4-**PD216-AN10** control connection.
Analog 0-10V Control inputs
Compatible with **sinking** 0-10V signals

Optional:
Could be controlled directly with a 100 KOHM potentiometer.

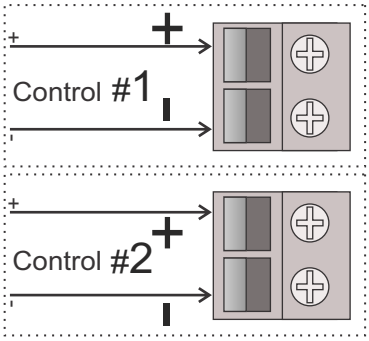
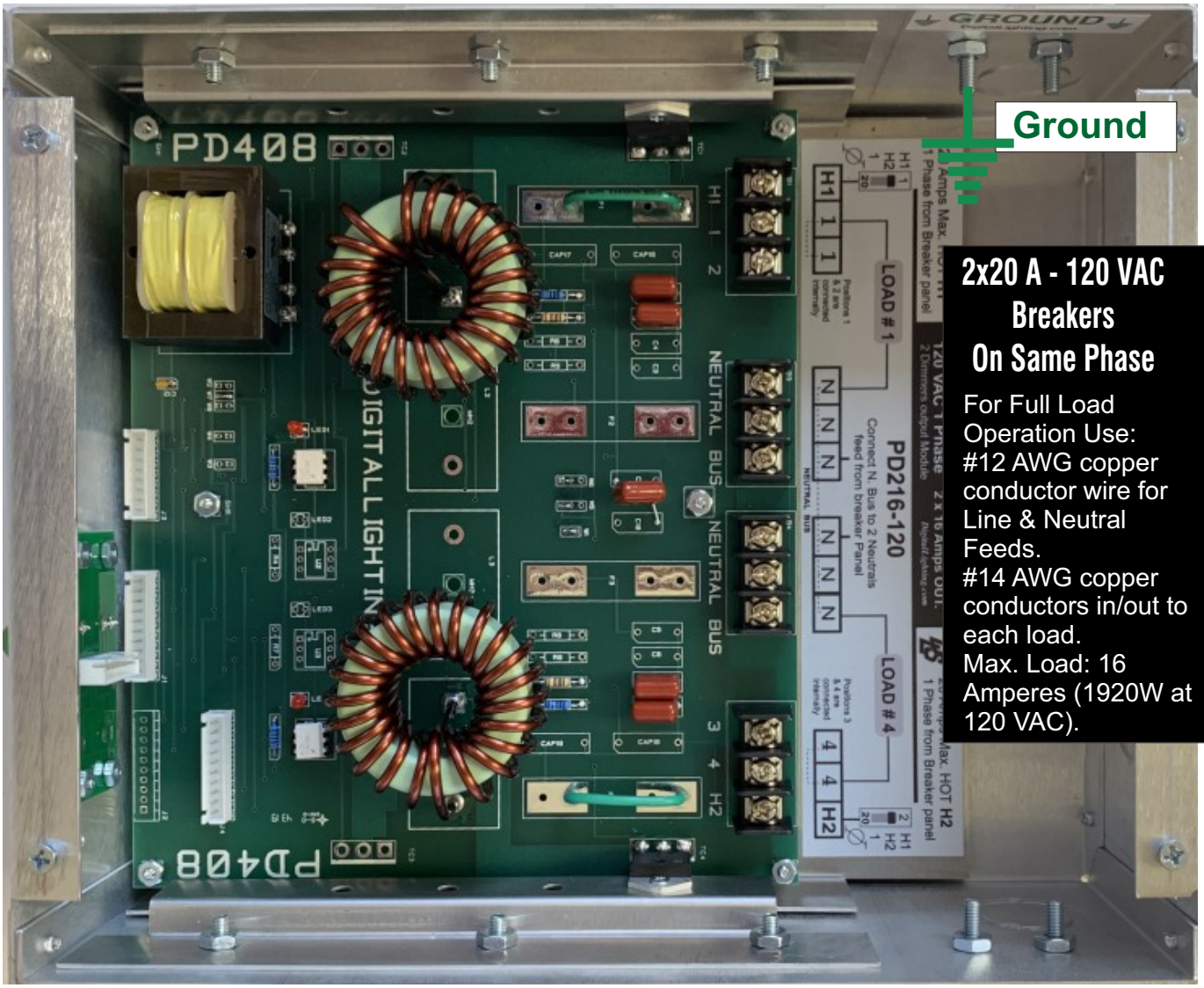


Figure 5 - PD216-AN10 Typical 120 VAC Wiring.



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Digital Lighting Systems, warrants to the purchaser that its products have been carefully manufactured and inspected and are warranted to be free from defects of workmanship and materials when used as intended. Any abuse or misuse contrary to normal operation shall void this warranty.

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Digital Lighting Systems, Inc.
Attn: Customer Service Department
12302 SW 128 Ct. STE 105
Miami, FL 33186
(305) 969-8442

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No labor charges in connection with warranty problems will be reimbursed by Digital Lighting Systems without prior written approval from the factory.

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