

Digital Lighting Systems, Inc. PROTOCOL

PD104

1 x 4 A. outputs PD104-120 : 1 x 500 Watts @ 120 VAC PD104-277 : 1 x 1000 Watts @ 277 VAC



USER'S MANUAL

PD104 01/25 **Digital Lighting Systems**





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GENERAL DESCRIPTION

The **PD104** is a 1-channel **PROTOCOL** compatible dimmer pack. It is equivalent to 1 solid-state relays (SSR's) and a INT04 Logic assembled on a single circuit board. Power is fed to the **PD104** from **a breaker 20 A. Maximum.** the output is rated for a maximum output current of 4 **amperes**, The **PD104 Dimming Module** has an open plate Frame and is designed to mount on a 2 Gang electric connection box, 2" deep. The logic signals are optically-isolated from all line voltage elements. The **PROTOCOL** Network DATA (2 wires) control cable connects directly to the board or via **an optional RJ45** Jack. Several Dimmer packs may be daisy-chained together. Each **PD104** may be easily set to a unique address with 2 hexadecimal selectors Each of the **PD104** outputs may be independently configured to dim or switch from the **PSCXX** wall stations.

PD104

PROTOCOL

PD104 is available for 120VAC or 277VAC operation to provide full range dimming to LEDs and other ELV or electro magnetic loads loads.

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.

PD104 Dimensional Diagram

Dimension front panel 4.80 x 4.80"



Surface Mounted 2 Gang Electric junction box 2" Deep



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PROTOCOL

1 x 4 Amps Dimmer

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Wiring Notes

DO NOT EXCEED 500 W (4 Amps.) per each dimmer @ 120VAC.
DO NOT EXCEED 1000 W (4 Amps.) per each dimmer @ 277VAC.
DAll wiring From control to dimmers is low voltage (NEMA Class 2)
DPD104 PROTOCOL dimmer may be fed by up to 20 A Breaker,
(Up to 4 PD104 dimmers packs may be fed one 20 A Breaker)

DCAUTION: **DO NOT** parallel outputs to increase capacityDInstallations must conform to local and/or NEC code

PD104 could be hard wired to the PROTOCOL DATA bus or could be connected with an optional RJ45 Jack with a pigtail Optional; Not Included

PD104 Protocol RJ45 connector.



Only PIN 7 -DATA & PIN 8 +DATA are connected to PD104 DATAconnector



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1 x 4 Amps Dimmer

PROTOCOL

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PD104 PROTOCOL

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 Table 4 - PD DIMMER Address Selection Information

00 INVALID ADDRESS 01 set S2,S1 to 0,1 02 set S2,S1 to 0,2 03 set S2,S1 to 0,3 04 set S2,S1 to 0,4 05 set S2,S1 to 0,5 06 set S2,S1 to 0,6 07 set S2,S1 to 0,7 08 set S2,S1 to 0,8 09 set S2,S1 to 0,8 10 set S2,S1 to 0,8 12 set S2,S1 to 0,7 13 set S2,S1 to 0,C 13 set S2,S1 to 0,C 13 set S2,S1 to 0,F 16 set S2,S1 to 1,0 17 set S2,S1 to 1,0 17 set S2,S1 to 1,1 18 set S2,S1 to 1,2 19 set S2,S1 to 1,2 19 set S2,S1 to 1,4 21 set S2,S1 to 1,4 21 set S2,S1 to 1,5 22 set S2,S1 to 1,6 23 set S2,S1 to 1,7 24 set S2,S1 to 1,8 25 set S2,S1 to 1,8 25 set S2,S1 to 1,8 26 set S2,S1 to 1,8 27 set S2,S1 to 1,8 28 set S2,S1 to 1,7 24 set S2,S1 to 1,8 25 set S2,S1 to 1,8 27 set S2,S1 to 1,8 28 set S2,S1 to 1,7 30 set S2,S1 to 1,7 31 set S2,S1 to 1,7 32 set S2,S1 to 2,0	33 set S2,S1 to 2,1 34 set S2,S1 to 2,2 35 set S2,S1 to 2,3 36 set S2,S1 to 2,4 37 set S2,S1 to 2,6 39 set S2,S1 to 2,7 40 set S2,S1 to 2,8 41 set S2,S1 to 2,8 41 set S2,S1 to 2,8 43 set S2,S1 to 2,8 43 set S2,S1 to 2,7 43 set S2,S1 to 2,7 45 set S2,S1 to 2,7 46 set S2,S1 to 2,7 46 set S2,S1 to 2,7 46 set S2,S1 to 2,7 47 set S2,S1 to 3,1 50 set S2,S1 to 3,2 51 set S2,S1 to 3,2 51 set S2,S1 to 3,3 52 set S2,S1 to 3,4 53 set S2,S1 to 3,4 53 set S2,S1 to 3,6 55 set S2,S1 to 3,7 56 set S2,S1 to 3,8 57 set S2,S1 to 3,8 57 set S2,S1 to 3,8 57 set S2,S1 to 3,8 57 set S2,S1 to 3,7 56 set S2,S1 to 3,8 57 set S2,S1 to 3,7 56 set S2,S1 to 3,7 57 set S2,S1 to 3,7 58 set S2,S1 to 3,7 59 set S2,S1 to 3,7 50 set S2,S1 to 3,7 51 set S2,S1 to 3,7 53 set S2,S1 to 3,7 54 set S2,S1 to 3,7 55 set S2,S1 to 3,7 56 set S2,S1 to 3,7 57 set S2,S1 to 3,7 58 set S2,S1 to 3,7 59 set S2,S1 to 3,7 50 set S2,S1 to 3,7 51 set S2,S1 to 3,7 53 set S2,S1 to 3,7 54 set S2,S1 to 3,7 55 set S2,S1 to 3,7 56 set S2,S1 to 3,7 57 set S2,S1 to 3,7 58 set S2,S1 to 3,7 59 set S2,S1 to 3,7 51 set S2,S1 to 3,7 53 set S2,S1 to 3,7 54 set S2,S1 to 3,7 55 set S2,S1 to 3,7 56 set S2,S1 to 3,7 57 set S2,S1 to 3,7 58 set S2,S1 to 3,7 59 set S2,S1 to 3,7 51 s
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NOTES:

00 Decimal (S2,SI = 0,0) is not allowed on any device. PD104 address is output number 1 of the 4 channel module. Max **PD104** Address: 63 Decimal (S2,S1 = 3,F)

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