

Type:
Job:
Catalog Number:

Approvals:

See individual PRODUCT DATA SHEETS to specify Switches, Sliders
other compatible system components and devices

BYD PANEL
(INPUT VOLTAGE)

BYD-PB-120/277
Power Booster Panel
if required
(SELECTABLE INPUT VOLTAGE)

MASTER SYSTEM
CONTROL SWITCHES

DIMMING SLIDER
(if required)

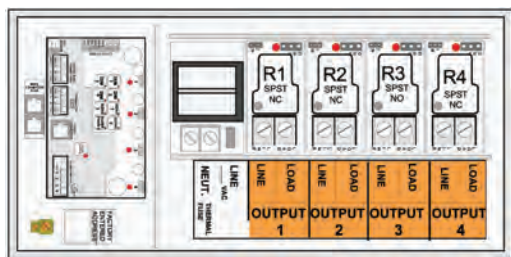
SYSTEM
DEVICES

Date:
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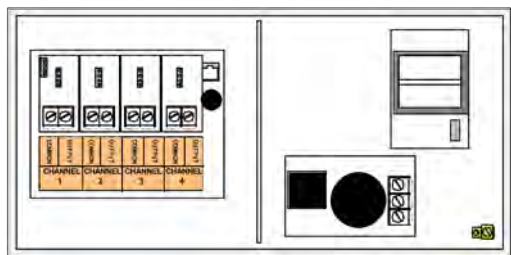
Overall Dimensions

For Reference Only

BYD Electronic Dimming Zone Control Panel



BYD-PB-120/277 Electronic Dimming Power Booster Panel (required in systems with E3 ballast)

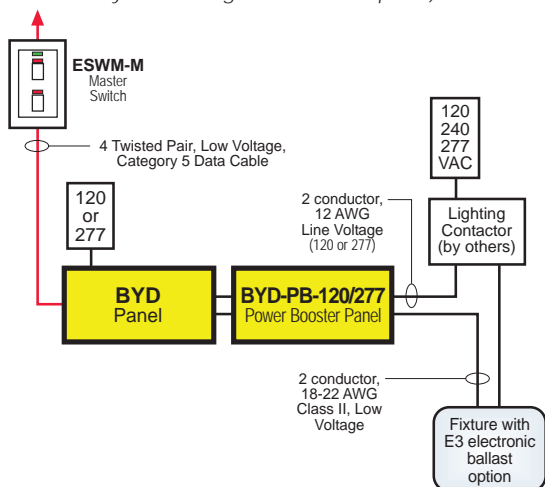


NEMA 1 Enclosure (typical)

Dimensions: 6.0"H x 12.0"W x 4.0"D
(15.24cm x 30.48cm x 10.16cm)

Wiring Diagram

(Typical for one mastered zone when specified
in a system utilizing the E3 ballast option.)



Physical Specifications

Relays

30 Amp, 277VAC, HID Lighting Duty Rated up to 100,000 operations.

Power Input

BYD-120: 120VAC, 60Hz., 10 mA. max.;

BYD-277: 277VAC, 60Hz., 10 mA. max.

Control Input

LOCAL / MASTERED: 4 Wire Digital Buss

Cat 5 Data Cable, 4 Twisted Pair, Class II, Low Voltage.

ESWM-M, ESWME-M control switches), digitally addressable, up to 128 addresses.

Control Output

0-10 VDC Signal (suitable for use with E1, E4 electronic ballast systems).

Note: E3 systems require the BYD-PB 120/277 Power Booster Panel, which supplies 0-10 VDC signal output.

Enclosure

NEMA 1 type, surface mount enclosure with hinged door, yellow powdercoat.

Listings

UL/cUL Listed to 916. Suitable for use in ambients from 17°C (0°F) - 41°C (105°F). The quality systems of this facility have been Registered by UL to the ISO 9000 Series Standards.

Standard Pre-Programmed System Features

The BYD Electronic Dimming Control Panel provides four zones of lighting circuit control with the recommended maximum of 50 luminaires per zone.

Note: When specifying the BYD series control panel in an system with E3 electronic ballasts, the BYD-PB-120/277 is also required to provide voltage inversion as well as control signal boosting.

Power Failure Memory

In the event of a power failure, the system will remember its last setting, and return to it, after the start-at-high period.

Failsafe Electronics

In the unlikely event of control failure, the system will default to ON at full lighting level.

Direct Connect Automatic

Panels accept direct control voltage inputs from devices such as the AEC-ER photocell, DTC Digital Time Clock or the DCI Dry Contact Interface.

Cat 5 Switch Wiring

All Local and Master switches connect via cat 5 data, low voltage conductors.

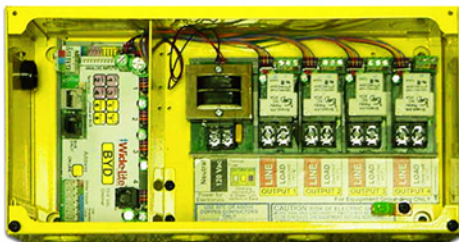
Warranty / Terms And Conditions

Standard 5 Year Limited Warranty

Wide-Lite's current Warranty may be found at www.wide-lite.com (keyword: warranty) as well as Wide-Lite's current Standard Terms and Conditions of Sale (keyword: terms).

All sales of items in this catalogue shall be subject to Wide-Lite's Standard Terms and Conditions of Sale current at the time of shipment. If you do not have a copy of Wide-Lite's Warranty and Standard Terms, please contact the factory for same prior to ordering.

Standard Features



Modular Electronic Dimming 4-Zone Control Panel / Power Booster Panel ⁽¹⁾

- ☐ **BYD-120** 120 VAC Control Voltage
- ☐ **BYD-277** 277 VAC Control Voltage
- ☐ **BYD-PB-120/277** Selectable VAC Power Booster Panel
(required in E3 systems only)

(1) Multiple Zone Systems may require assignment of Factory Entered Address information. Consult factory.

BYD Control Switches *(Consult Individual Control Switch Product Data Sheets for Complete Specifications)*

Typical Electronic Dimming Switches

- ☐ **ESWM-M** 2 Button Manual Zone Control
 ZONE ON / RAISE
 ZONE OFF / LOWER
 4 Twisted Pair, Low Voltage, Cat 5 Data
- ☐ **ESWME-M** 3 Button Master Zone Control
 ZONE ON / RAISE
 ENABLE
 ZONE OFF / LOWER
 4 Twisted Pair, Low Voltage, Cat 5 Data

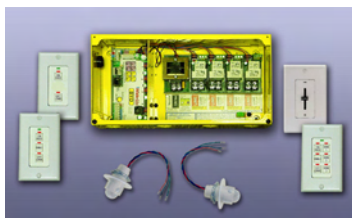
Electronic 3-Scene Preset Switches

- ☐ **ESW3PE-M** 4 Button
 3 Scene Preset Master Control
 SCENE 1
 SCENE 2
 SCENE 3
 ENABLE
 4 Twisted Pair, Low Voltage, Cat 5 Data
- ☐ **ESWCH-M** 6 Button
 3 Scene Preset Master Control
 ON / RAISE
 ENABLE
 OFF / LOWER
 SCENE 1
 SCENE 2
 SCENE 3
 4 Twisted Pair, Low Voltage, Cat 5 Data

Manual Dimming Slider

- ☐ **ESLDR** Variable Dimming Vertical Slider
 ZONE RAISE / LOWER
 2 Conductor 18 AWG, Shielded and Stranded,
 Class II, Low Voltage, Cat 5 Data

BYD Electronic Dimming System typical components *Consult Individual Product Data Sheets to specify these control devices.*



- **Adjustable Photocells**
(Automatic Energy Control)
AEC-ER
- **Photocell Controller**
(Requires DTC Option in System)
PCC-1
- **System Programmer**
w/ Digital Time Clock
(Optional)
DTC
DTC-MODEM
- **Dry Contact Interface**
DCI

Wide-Lite is a Philips group brand

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Wide-Lite reserves the right to change specifications and dimensions without notice. Lamp and electrical specifications / availability subject to change by manufacturer without notice.

www.wide-lite.com
CATALOG KEYWORD: **BYD**

PT#: WLSP0156A0109

ISO 9001
Certified

