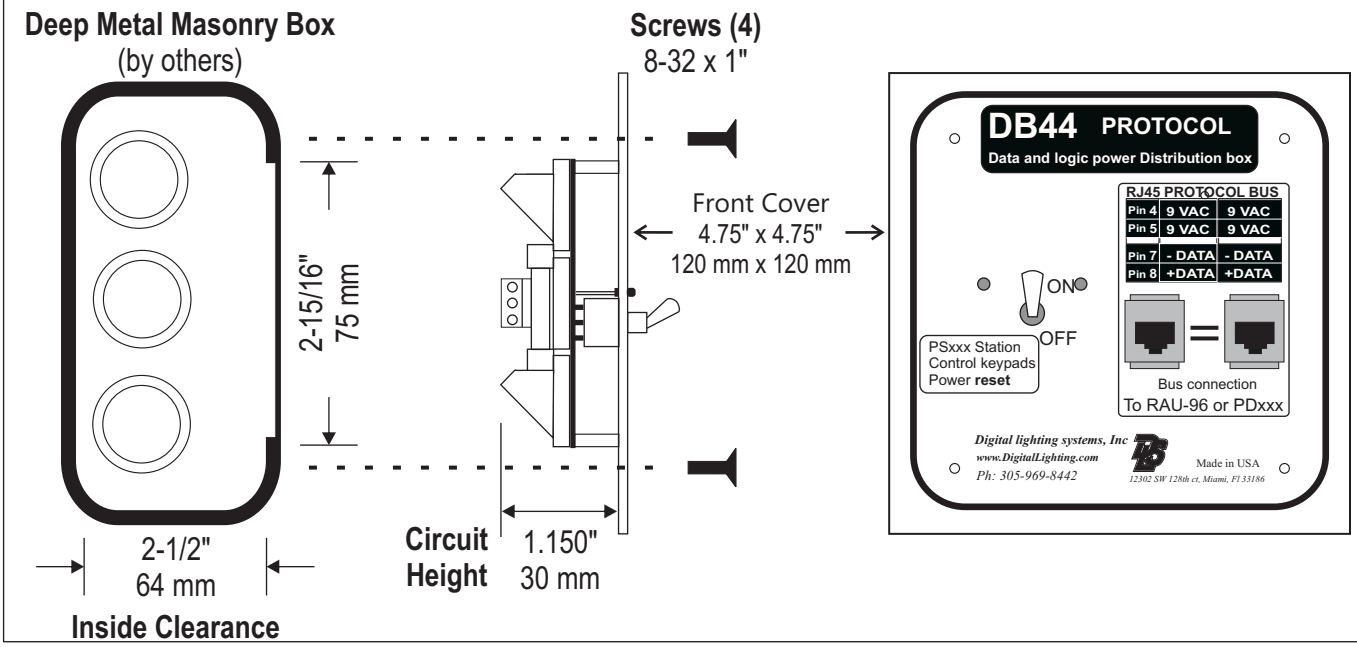


General Description

The **DB44** low voltage network power and data distribution panel **provides a convenient way to interconnect different home runs of the system** network bus and also provides a direct connection for the **RAU-96** on its front panel. **Power from an external Class 2 network transformer is supplied to all control stations of the system through the DB44**. A fast-blow fuse mounted on the circuit board provides the transformer with short circuit protection. The **toggle switch** on the front panel is **used to power down and/or reset the stations**. Two LED's are also provided on the front panel to indicate power status.

The PD Series dimmer pack control boards do not draw power from the stations' network transformer. Each dimmer pack has an integral transformer used to power its individual control board.

Main Features

- Convenient Network Bus Splicing.
- Replaces Wire-Nut and Crimp-type Splicing Methods.
- Compact Size.
- Network Power Short-Circuit Protection.
- Screw Terminal and Detachable Connections.
- Network Power Interrupt Switch.
- LED Power Monitors.
- Convenient RAU-96 & PDxxx RJ45 plugs.

Mounting requirements

- The **DB44** low voltage power and distribution panel mounts in a double gang masonry box.
- Masonry box must have a minimum depth of 2-1/2" and a minimum inside height of 2-15/16" to allow clearance for printed circuit board. (See above illustration.)
- Use Grounded metal boxes only.
- Masonry boxes to be supplied by others.

Wiring Notes

K All wiring between the control stations, load drivers, and other system accessories (network bus) is low voltage (NEMA Class 2) and may be run with two twisted pair # 18 AWG wire. Refer to Protocol Installation Manual, Appendix E, for maximum wire length.
Network Bus may be Carol Cable #C3362 unless otherwise required.

L Do not run Network Bus cable in the same conduit with non-class 2 circuits.

M Network Bus wire may be run in any combination of daisy chain (T-tap), home run, star, and/or branch.

N Power for all stations of a system must be on the same power phase.

◊ Installation must conform to local and/or NEC code requirements.

P Refer to Protocol Installation Manual for more instructions.

Ordering Information

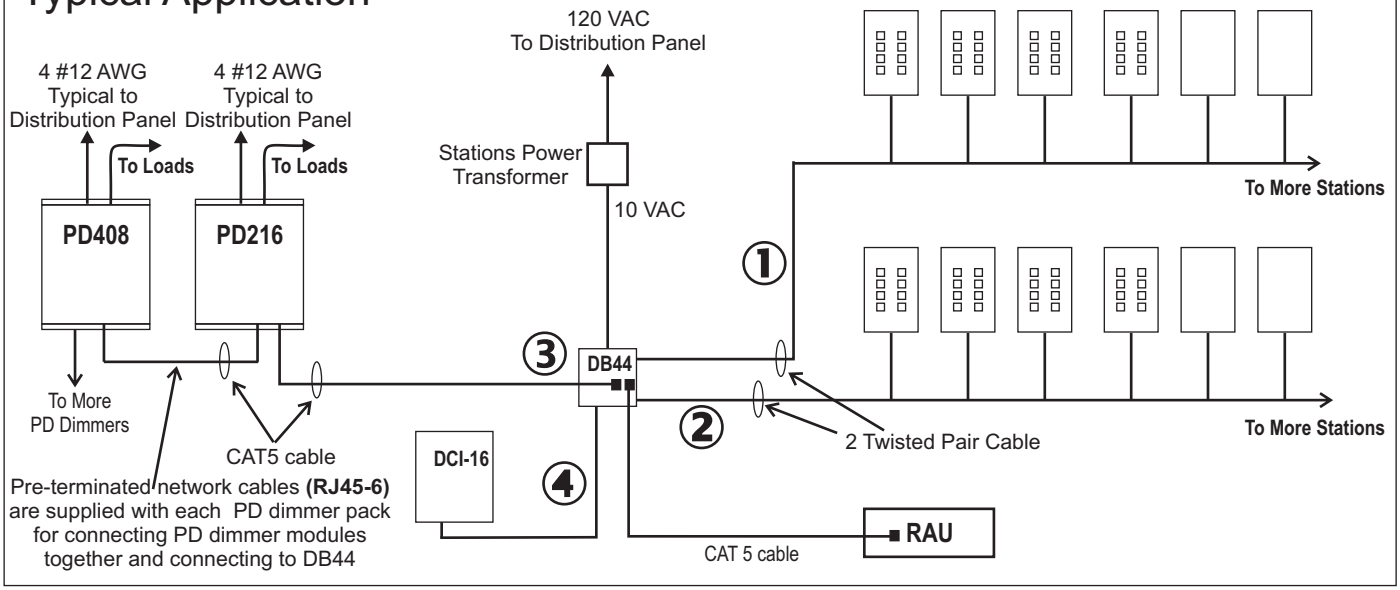
- Panel Part Number: **DB44**
- Transformer Part Number: **WT10**/**30** unless otherwise required.

Physical and Electrical Specifications

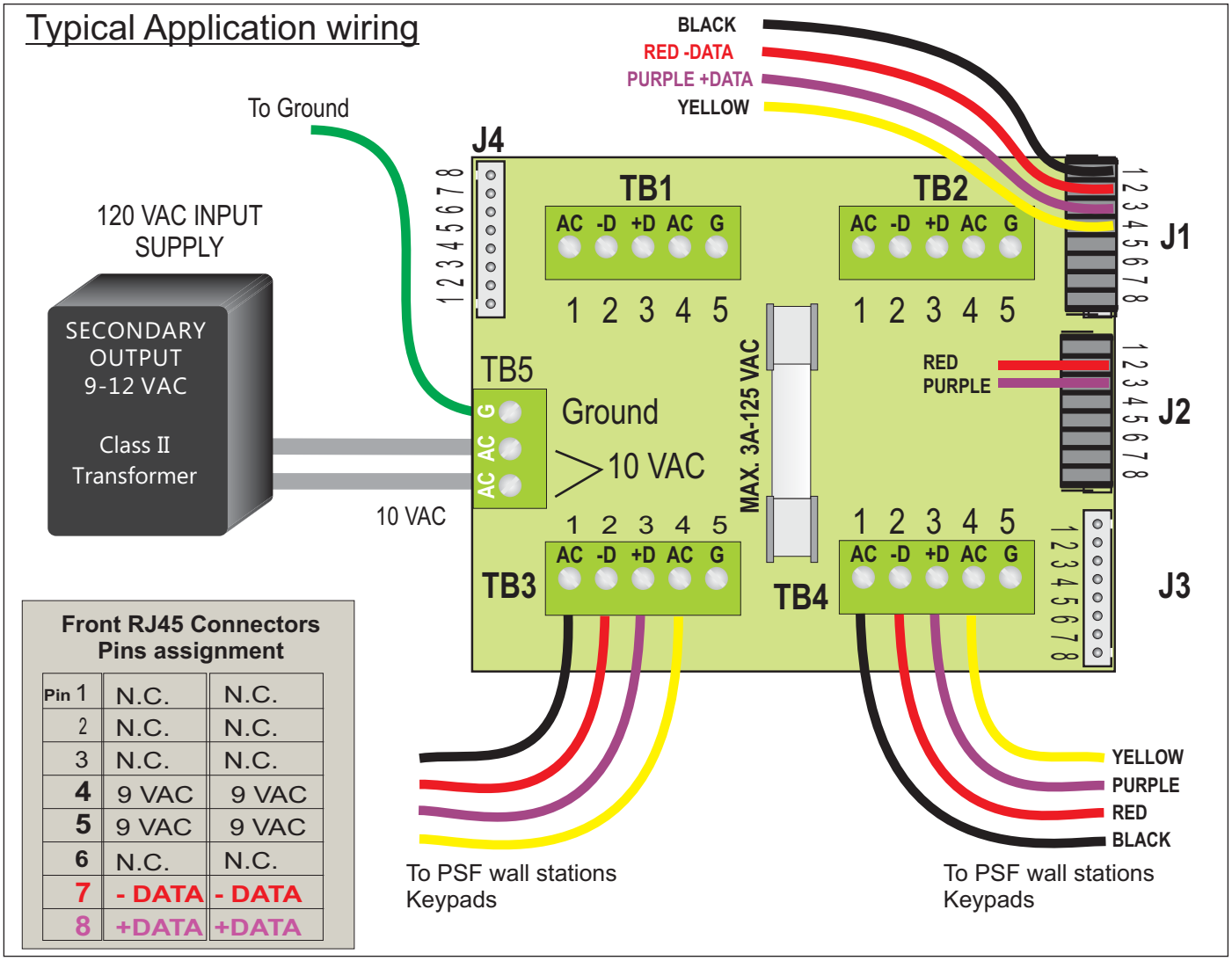
Front Plate:	0.065" Aluminum (1.65 mm)
Dimensions:	See Drawing Above.
Weight:	0.5 Ibs. (.25 Kg.)
Transformer:	Class 2, 10 VAC-50/60 Hz - 3A
Fuse Rating:	Max 3 A.125 VAC, Fast Blow, AGC3 or equivalent.
Network Ports:	2 RJ45 jacks on front panel
	4 0.1" c-c, 8 Position, Male Headers (J1-J4).
	4 0.2" c-c, 5-Position Screw Terminal Blocks (TB1-TB4).
Power input :	One 0.2" c-c, 3-Position Screw Terminal Block TB5

12302 Sw 128th court, Miami, Fl. 33186 Tel: 305-969-8442

Typical Application



Typical Application wiring



Front RJ45 Connectors Pins assignment

Pin 1	N.C.	N.C.
2	N.C.	N.C.
3	N.C.	N.C.
4	9 VAC	9 VAC
5	9 VAC	9 VAC
6	N.C.	N.C.
7	- DATA	- DATA
8	+DATA	+DATA