



Project name:		Type
Catalog number:		
Location:		
Date:		
Comments:		

## RATIO DALI Bus Power Supply/16A Relay PP-DALI-PSR

### ORDERING INFORMATION

Product Code	Description	Color	Part Number
PP-DALI-PSR	RATIO DALI Bus Power Supply with 16A Relay, 120-277V	Black	97217



### TOP FEATURES

- DALI 2.0 and 1.0 compliant bus power supply for RATIO by B.E.G. Controls
- Integral 16A DALI individually addressable relay for lighting and other switching loads
- Power Pack style for standard junction box mounting through ½" trade size knockout
- Status and fault LED for easy troubleshooting

### DESCRIPTION

The PP-DALI-PSR is a compact 120-277 VAC DALI bus power supply designed for use with B.E.G. Controls RATIO architectural scene control. The PP-DALI-PSR output supplies 100 mA of 16 VDC DALI bus power, which is sufficient to support most RATIO applications. For complex RATIO applications requiring a larger number of DALI devices, a second PP-DALI-PS can be wired in parallel to increase the available DALI bus power to 200 mA total. The integral 16A DALI addressable relay can be used for controlling switchable 120-277V lighting or other loads, and be grouped or be part of scenes like a light fixture.

The PP-DALI-PSR is plenum rated and includes two lock nuts to secure it through a ½" trade size knockout.

### OPERATION

The PP-DALI-PSR is supplied with line voltage and outputs a DALI voltage of typically 16 VDC and 100 mA of available bus power. Up to 25 DALI light fixtures and 6 RATIO control devices (multi sensors or push button interfaces) can be connected to a single power supply. Wiring a second power supply in parallel increases the available bus power to 200 mA, allowing up to 50 DALI light fixtures and 12 RATIO control devices.

Operating information is displayed via LEDs. The device offers integrated temperature monitoring and short circuit recognition. RATIO is programmed via Bluetooth using a smartphone and the B.E.G. BLE app. The PP-DALI-PSR integral relay is recognized and configured via the RATIO app.

Please refer to the installation instruction/manual for a detailed description of functions and operation..

## APPLICATIONS

### ■ Interior Applications:

Conference Rooms

Private Offices

Media Rooms

Lecture Halls

Hotel Ballrooms and Meeting Rooms

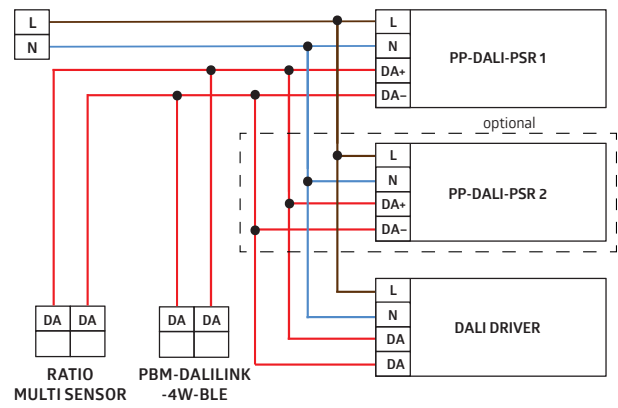
## PRODUCT INFORMATION

- DALI bus power supply for use with RATIO architectural scene control components and DALI 2.0 or 1.0 compatible control gear devices (i.e. LED drivers, fluorescent ballasts)
- Integral 16A DALI addressable relay for switching lighting and other loads. Not suitable for plug receptacle load control
- Requires RATIO controls and DALI compatible devices. Supports up to 100 mA bus power
- A second PP-DALI-PSR can be wired in parallel to provide an additional 100 mA bus power (for 200 mA total). Do not connect more than two PP-DALI-PSR, or a PP-DALI-PSR with a different DALI bus power supply, to a single DALI bus. This could result in permanent damage to the connected RATIO and DALI devices
- Integral relay output is a maintained contact closure, normally open (N.O.)
- Relay opened and closed by recalling scene levels 100% or 0, or toggle on/off commands using RATIO controls. Configured via the RATIO Bluetooth Android or iOS smartphone app
- Mounts on a standard junction box through a ½ inch trade size knockout. Two lock nuts included
- Plenum rated
- Status and fault LED for easy troubleshooting
- Integral short circuit and thermal protection
- 5 years limited warranty
- ROHS and REACH compliant

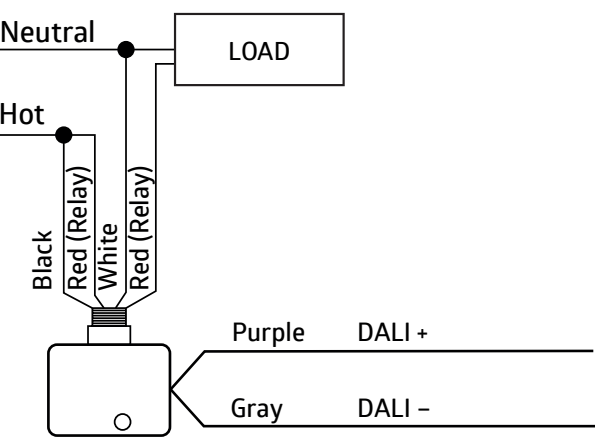
## TECHNICAL DETAILS

<b>Power Supply:</b>	120-277 VAC ± 10%, 60 Hz
<b>Relay Switching Power:</b>	16.0 A @ 120-277 VAC
<b>Power consumption:</b>	3.3 W
<b>Maximum supply current:</b>	100 mA
<b>DALI Output voltage:</b>	typ. 16 V DC (UL Class II Low Voltage)
<b>Operating temperature:</b>	-13 °F to 122 °F/ -25 °C to +50 °C
<b>Dimensions:</b>	3.35 x 3.27 x 1.5 inch / 86 x 83 x 38 mm
<b>Housing:</b>	UV- and shock resistant 5VA material
<b>Protection:</b>	Suitable for indoor use and dry locations only, Non-Condensing
<b>Pollution degree:</b>	2
<b>Control Action:</b>	Type 1
<b>Compliances:</b>	ETL listed for the U.S. and Canada (UL STD 60730-1 and CSA STD E60730-1). UL 2043 plenum rated

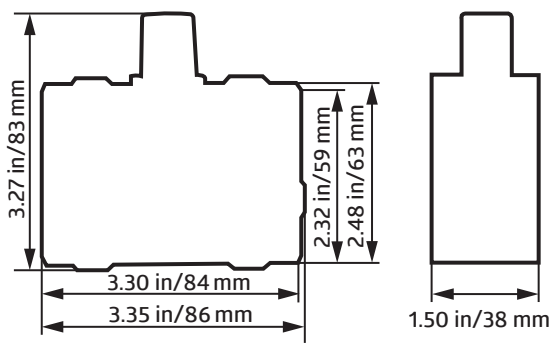
WIRING DIAGRAM RATIO



WIRING DIAGRAM PP-DALI-PSR



DIMENSIONS DRAWING



NOTE: PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.  
PLEASE CONSULT THE B.E.G. CONTROLS WEB SITE FOR THE MOST RECENT PRODUCT SPECIFICATIONS.