



# 0-10V CONTROLLED PHASE ANGLE DIMMER PACK

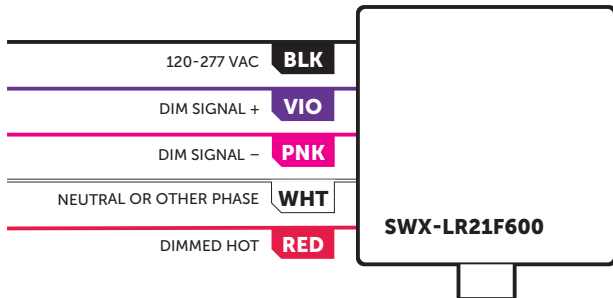


**SENSORWORX®**

## OVERVIEW

The **SENSORWORX** 0-10V Controlled Phase Angle Dimmer Pack provides a simple method of converting standard 0-10V signals to incandescent dimming applications. Designed by Functional Devices, the **SWX-LR21F600** is compatible with a variety of 0-10V inputs and incandescent outputs. It allows the 0-10 VDC to be Sinking or Sourcing, and the phase dimming output to be Leading-Edge (Forward-Phase) or Trailing-Edge (Reverse-Phase / ELV). **SWX-LR21F600** can accommodate 120VAC or 277VAC circuits.

## SINGLE LINE DRAWING



## FEATURES

- Controls 120 VAC or 277 VAC Fixtures
- Selectable Sinking or Sourcing 0-10 VDC
- Selectable Leading-Edge or Trailing-Edge output

## SPECIFICATIONS

### ELECTRICAL

**POWER INPUT RATINGS**

10mA @ 120-277 VAC, 60Hz

**OUTPUT DIMMING LOAD**

Incandescent/Halogen

600W @ 120VAC (min load 1W)

1300W @ 277VAC (min load 1W)

Other Lighting Loads

300W @ 120VAC (min load 1W)

6500W @ 277VAC (min load 1W)

Mode selectable

Leading-Edge Dimming (Forward-Phase)

Trailing-Edge Dimming (Reverse-Phase / ELV)

**CONTROL INPUT**

Selectable current sourcing or sinking 0-10 VDC

### ENVIRONMENTAL

**OPERATING TEMP**

-30°F to 122°F (-1°C to 50°C)

### PHYSICAL

**SIZE**

4.00"H x 4.00"W x 1.80"D with .50" NPT Nipple  
(10.16 x 10.26 x 4.57 cm)

**MOUNTING**

1/2" KO mounted to a junction box

Suitable for Installation in Plenum

**LED INDICATORS**

Red: Power Status

**APPROVALS**

UL916, C-UL, RoHS, NEMA1



## ORDERING INFO

MODEL #	DESCRIPTION
SWX-LR21F600	0-10 VDC Controller Phase Angle Dimmer Pack (Incandescent/Halogen 600W @ 120VAC; 1300W @ 277VAC, Other Lighting Loads 50% derating)

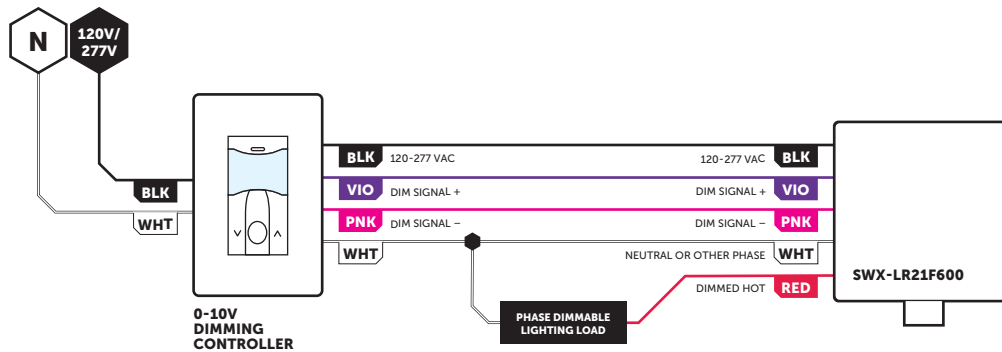
# BASIC OPERATION

The 0-10 VDC signal is converted to control the 120 VAC or 277 VAC analog output going to dimmable lighting fixtures.

## Notes:

- The switch on-board the unit will change dimming between leading or trailing edge. Requires power cycle when adjusted.
- Purple & pink wires are used with both Current Sink 0-10V controllers and Current Source 0-10V controllers. The LR21F600 will automatically detect the controller type.
- "Low Dim Threshold" set with push button during operation. Pressing and holding the button for one second will log the present 0-10V value and turnoff the load when 0-10V signal drops below that value.
- To reset "Low Dim Threshold", short together or send 0V to Purple & Pink. Then press and hold the button for 1 second.
- The above method will set the "Low Dim Threshold" to the minimum value. However, factory default "Low Dim Threshold" is set slightly above this mark. Some lighting fixtures flicker at very low values.
- For use with 60Hz only.
- Not for use with Magnetic Low Voltage (MLV) loads.

# WIRING



## ORIGINAL EQUIPMENT MANUFACTURER

Functional Devices, Inc.  
101 Commerce Drive, Sharpsville, IN 46068  
765-883-5538 | 1-800-888-5538 | Fax: 765-883-7505  
www.functionaldevices.com

