The FCM2R is a wire in fixture control module which features two channels of zero cross switching. The module is part of a complete PCS® engineered GreenWorx™ Lighting Control System.

**FEATURES**

- System supports up to 3500 FCMs in one network
- Each FCM can belong to 16 zones and 64 scenes
- 2 channels of zero cross switching
- Internal 0%, 33%, 66%, 100% fixture step control with 3 or 6 lamp fixtures, 0%, 50%, 100% with 2 or 4 lamps
- Control of fluorescent, LED, or Induction ballast lighting loads
- Versions to Support 120 or 277 Volt applications
- 60 Hz or 50 Hz compatible
- 2 Amp load rating per channel
- Arc-less zero-crossing based relay switching
- Positive air gap at each output
- Industrial Powerline Communication® Pulse Position Modulation communication
- Local controls for testing and verification
- Local and remote override capability
- Non-volatile power failure memory
- Total ON time logging
- Relay Closure Time Logging
- Return to previous light level after power outage
- Go to 100% if no system controller heartbeat message detected
- Staggered turn-on time over 64 powerline cycles to prevent dangerous inrush on facility supply

**SPECIFICATIONS**

**Load Ratings**

<table>
<thead>
<tr>
<th>Channels: 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per Channel: 2 Amps @ 100 or 277 Volts AC, 50/60Hz;</td>
</tr>
<tr>
<td>Switch Load Types: fluorescent ballast, induction, LED</td>
</tr>
<tr>
<td>Relay Lifetime: 100,000 on/off operations at full electronic ballast load</td>
</tr>
</tbody>
</table>

**Power Requirements**

- Primary: 120 or 277 Volts AC, 50/60Hz

**Connectors**

- Wago #253 Series or equivalent
- 6-position connector terminal block
- 16-20 Solid AWG, 0.5 - 1.5 mm² push-in connectors

**Controls & Indicators**

Operational mode of momentary push button:

- SETUP Mode = 5 taps while in NORMAL Mode
- SETUP Mode Exit = 1 or 2 taps while in SETUP Mode
- TEST Mode = Press & Hold in NORMAL Mode
- TEST Mode Exit = Press & Hold while in TEST Mode
- FACTORY Default = 10 taps while in SETUP Mode

LED Status indicators:

- SETUP Mode = Blinks between Green/Black
- TEST Mode = Blinks between Orange/Black
- Transmitting = Blinks Red
- Receiving = Toggles Green/Red
- Receiving Noise = Toggles Green/Black
- Receiving no signal = Blinks Green
- FACTORY Defaulted = Blinks between Red/Black

**Enclosure**

Surface or recessed mount module, mounts in fixture ballast compartment

**Environmental**

- Temperature: -40° to 194°F (-40° to 90°C)
- High-temp version available - 40° to 240°F (-40° to 115°C)
- Humidity: 10% to 90% RH (non-condensing)
- Heat Dissipation: .82W

**Dimensions**

- Length: 4.90 in (125 mm)
- Width: 2.35 in (60 mm)
- Depth: 1.25 in (32 mm)
- Weight: 6.1 oz (173 g)

**Electrical Regulatory Certifications**

ETL tested to UL508
FCM2R
2 Channel Fixture Control Module

TYPICAL WIRING DIAGRAM

DIMENSIONS