Datasheet

Networked Pick-to-Light Devices

This datasheet contains limited information on the PTL110S Pick-to-Light device. For complete information on configuration, performance, troubleshooting, dimensions, and accessories, please refer to the Pick-to-Light System Instruction Manual. Go to www.bannerengineering.com and search 206185 to view the Instruction Manual or 209995 to view the Device Register Map. Use of this document assumes familiarity with pertinent industry standards and practices.

- Customizable pick-to-light logic with up to 14 colors in one device
- Translucent face appears gray when off to avoid false indication
- M12/Euro-style connector models for plug and play indication
- Wide 180° field of view
- 3-digit, 7-segment LED display
- Photoelectric and touch sensing options
- RS-485 Modbus communication featuring PICK-IQ® technology for faster response speed

Models

<table>
<thead>
<tr>
<th>Family</th>
<th>Housing</th>
<th>Control</th>
<th>Sensor</th>
<th>Touch</th>
<th>Display</th>
<th>Connection*</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTL</td>
<td>110</td>
<td>S</td>
<td>FF100</td>
<td>T</td>
<td>D3</td>
<td>QP150</td>
</tr>
</tbody>
</table>

- FF100 = 100 mm fixed field
- FF200 = 200 mm fixed field
- Blank = No sensor input
- D3 = 3-digit LED display
- Blank = No display

* Models not connected in a series with a quick disconnect require a mating cordset

PTL110S Wiring

<table>
<thead>
<tr>
<th>Wiring for the QP Models</th>
<th>Wiring for the QPS Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-pin M12/Euro-style Male</td>
<td>5-pin M12/Euro-style Male</td>
</tr>
<tr>
<td>Pin</td>
<td>Wire Color</td>
</tr>
<tr>
<td>-----</td>
<td>------------</td>
</tr>
<tr>
<td>1</td>
<td>brown</td>
</tr>
<tr>
<td>3</td>
<td>blue</td>
</tr>
<tr>
<td>4</td>
<td>black</td>
</tr>
<tr>
<td>2</td>
<td>white</td>
</tr>
<tr>
<td>5</td>
<td>gray</td>
</tr>
</tbody>
</table>

FCC Part 15 and CAN ICES-3 (B)/NMB-3(B)

This device complies with part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the manufacturer.
Specifications

Supply and Voltage Current
10 V dc to 30 V dc, UL Listed class 2 power supply
1.65 Watts max. power draw

Maximum Current
155 mA at 10 V dc
60 mA at 24 V dc
55 mA at 30 V dc
Current measurements assume indicator is on at high intensity, display is on, and sensor module is active. Typical device current will be dependent on its configuration. See the Instruction Manual for more information.

Construction
Housing: ABS
Indicator: Polycarbonate
Lens: Acrylic

Connections
Integral PVC cable with quick disconnect, length varies depending on model

Environmental Rating
IEC IP54

Certifications

Dimensions

Operating Conditions
40 °C to +50 °C (~40 °F to +122 °F)
90% at +50 °C maximum relative humidity (non-condensing)

Required Overcurrent Protection

Overcurrent protection is required to be provided by end product application per the supplied table.
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.
Supply wiring leads < 24 AWG shall not be spliced.
For additional product support, go to www.bannerengineering.com.

<table>
<thead>
<tr>
<th>Supply Wireg (AWG)</th>
<th>Required Overcurrent Protection (amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>5.0</td>
</tr>
<tr>
<td>22</td>
<td>3.0</td>
</tr>
<tr>
<td>24</td>
<td>2.0</td>
</tr>
<tr>
<td>26</td>
<td>1.0</td>
</tr>
<tr>
<td>28</td>
<td>0.8</td>
</tr>
<tr>
<td>30</td>
<td>0.5</td>
</tr>
</tbody>
</table>

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