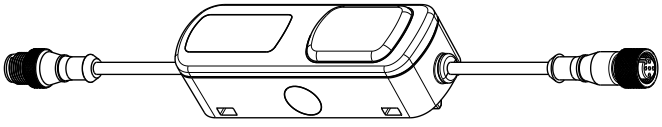
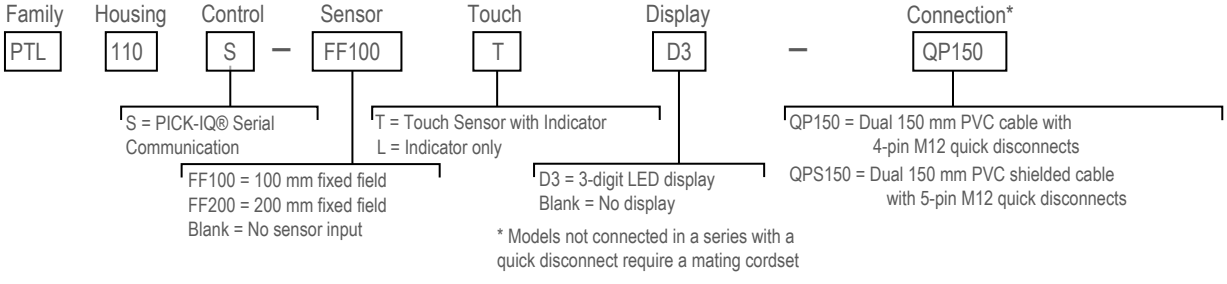
Features

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.

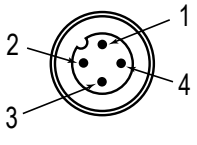
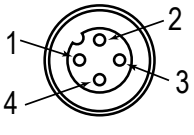


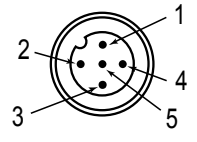
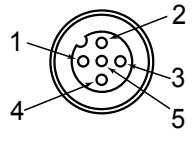
- Customizable pick-to-light logic with up to 14 colors in one device
- Translucent face appears gray when off to avoid false indication
- M12 connector models for plug-and-play indication
- Wide 180° field of view
- 3-digit, 14-segment LED display
- Photoelectric and touch-sensing options
- RS-485 Modbus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

Models



Wiring

Wiring for the QP Models				
4-pin M12 Male	**4-pin M12 Female**	**Pin**	**Wire Color**	**Connection**
		1	brown	10 V DC to 30 V DC
		3	blue	DC common
		4	black	RS-485 (-)
		2	white	RS-485 (+)

Wiring for the QPS Models				
5-pin M12 Male	**5-pin M12 Female**	**Pin**	**Wire Color**	**Connection**
		1	brown	10 V DC to 30 V DC
		3	blue	DC common
		4	black	RS-485 (-)
		2	white	RS-485 (+)
		5	gray	Shield

Specifications

Supply and Voltage Current

10 V DC to 30 V DC, UL Listed class 2 power supply
1.35 Watts maximum power draw

Maximum Current

135 mA at 10 V DC
50 mA at 24 V DC

Original Instructions
27-Mar-25

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206183
p/n: 206183 Rev. D

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

45 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

Optical Sensor Emitter LED

Infrared 870 nm

Connections

Integral PVC cable with a quick-disconnect connector, length varies depending on model

Environmental Rating

IP54

Operating Conditions

–40 °C to +50 °C (–40 °F to +122 °F)

90% at +50 °C maximum relative humidity (non-condensing)

Certifications

Banner Engineering BV
Park Lane, Culliganlaan 2F bus 3
1831 Diegem, BELGIUM

Turck Banner LTD Blenheim House
Blenheim Court
Wickford, Essex SS11 8YT
GREAT BRITAIN

Required Overcurrent Protection

WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

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.

Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	1.0	30	0.5

FCC Part 15 Class B for Unintentional Radiators

(Part 15.105(b)) 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. 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 dealer or an experienced radio/TV technician for help.

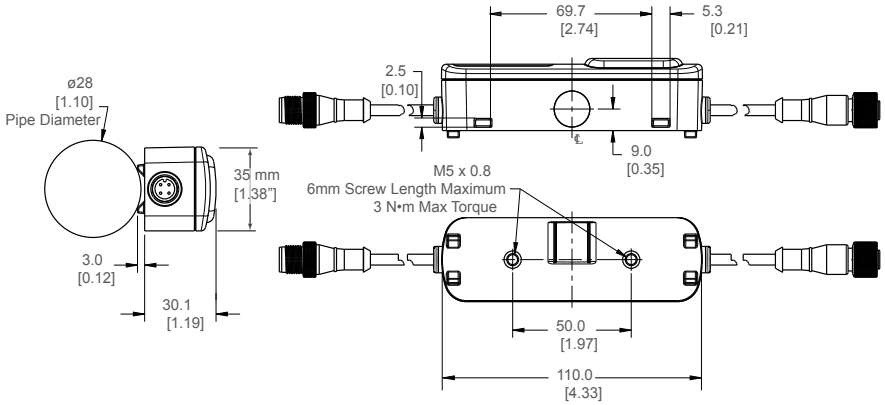
(Part 15.21) Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada ICES-003(B)

This device complies with 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.

Cet appareil est conforme à la norme NMB-3(B). Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas occasionner d'interférences, et (2) il doit tolérer toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité du dispositif.

Dimensions



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For patent information, see www.bannerengineering.com/patents.

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