PTL110

Scalable, Versatile Pick-to-Light Solution

• Optimize application performance with options including optical sensor, touch button and display

• Reduce system costs with simple mounting and direct device connection

• Achieve fast picking speeds in large scale systems with PICK-IQ™ serial communication

BANNER ®

Improve Productivity and Quality in Picking, Kitting and Related Applications

Bright indicator provides guidance and sensors confirm actions.

Built-in holes for easy mounting using zip ties

Mounting options are available for fast installation and part moves

PICK-IQ™
Ensures a fast response speed to exceed productivity targets

M12 connectors for fast daisy chain connection

Expand or modify your system quickly and easily

All models can be used as the first, middle or last unit to simplify ordering and stocking

Three-digit display to show pick count and more

Touch button provides a reliable pick interface

Customizable indication with up to 14 colors gives maximal visual clarity

Built-in optical sensor for direct pick detection

Define primary and secondary sensor functions to expand capabilities of a single device

Monitor and Control

PTL devices are controlled by a serial master

DXM700 Controller
- Use as master device for protocol conversion and system initialization
- Collect performance metrics for analysis and system optimization
- Choose an embedded radio model for wireless installations

Kitting Station

Challenge

• Assure accuracy and increase speed at kitting stations yet keep the system simple enough for one operator to perform multiple tasks

• Kitting areas have numerous parts to satisfy material demand for multiple models, and need flexibility for modification and expansion

Solution

• A single operator can use the multicolor indicator, clear three-digit display, and sensor or touch button to fulfill kits for multiple assemblies. The versatile PTL system can be configured for almost any type of kitting application large or small.

• High speed PICK-IQ™ communication allows for large, scalable kitting stations that guide the operator to maintain a pace that exceeds productivity targets

• Simple electrical and mechanical installation options simplify the addition of extra pick points to the system
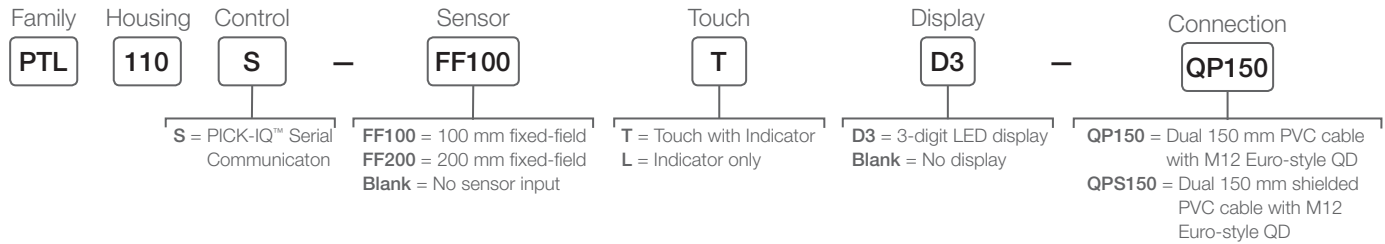

Multiproduct Assembly Station

Challenge

• Eliminate errors and ensure quality when multiple parts are built at one station

• Increase throughput and simplify training and restocking processes

Solution

• Clear indication quickly identifies the correct component and quantity for each step and reduces assembly errors. Component count can be monitored remotely, simplifying restocking and avoiding downtime.

• The optical sensor detects a hand during normal work motion and PICK-IQ™ communication provides fast response time to quickly indicate the next bin

• Color-based assembly makes training fast and easy. Simple connectivity and brackets allow PTL devices to be moved without reprogramming or tools.

Model Number Breakdown

Family	Housing	Control		Sensor		Touch		Display		Connection
PTL	110	S	–	FF100		T		D3	–	QP150

Control
S = PICK-IQ™ Serial Communicaton

Sensor
FF100 = 100 mm fixed-field
FF200 = 200 mm fixed-field
Blank = No sensor input

Touch
T = Touch with Indicator
L = Indicator only

Display
D3 = 3-digit LED display
Blank = No display

Connection
QP150 = Dual 150 mm PVC cable with M12 Euro-style QD
QPS150 = Dual 150 mm shielded PVC cable with M12 Euro-style QD

Supply Voltage	10 V dc to 30 V dc; 1.65 Watts max. power draw
Communication	PICK-IQ™ is compatible with Modbus RS-485 DXM700 converts Modbus RTU to Modbus TCP/IP or Ethernet/IP
Connected Devices	64 or more under standard usage with a single power supply >200 possible depending on power supply, cable length and device usage
Construction	Housing: ABS Indicator: Polycarbonate Display Lens: Acrylic (if present)
Environmental Rating	IEC IP54
Operating Temperature	–40 °C to +50 °C (–40 °F to +122 °F) 90% at +50 °C maximum relative humidity (non-condensing)
Certifications	CE c(UL)us

Dimensions: 35 mm, 30.1 mm, 110.0 mm

Accessories

LMBPTL110C
For 28 mm tubular racking

LMBPTL110F
For slotted extrusion and flat rail mounting

LMBPTL110A45

Cordsets

4-Pin M12/Euro-Style
Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC-406RA)

MQDC-406
2 m (6.5')
MQDC-415
5 m (15')
MQDC-430
9 m (30')

5-Pin M12/Euro-Style Shielded
Straight connector models listed

MQDC-STP-506
2 m (6.5')
MQDC-STP-515
5 m (15')
MQDC-STP-530
9 m (30')

4-Pin Double-Ended Euro-Style
Male straight connector to female straight connector

MQDEC-401SS
0.3 m (1')
MQDEC-403SS
0.91 m (3')
MQDEC-406SS
2 m (6.5')
MQDEC-412SS
3.7 m (12')

4-Pin Double-Ended Euro-Style
Male straight connector to male straight connector

MQDEC-STP-501SS-MM
0.3 m (1')

4-Pin Double-Ended Euro-Style
Female straight connector to female straight connector

MQDEC-STP-501SS-FF
0.3 m (1')

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