# Throughput Monitoring, Part Counting, and OEE



- Easily add part counting to legacy machines
- Monitor throughput to increase uptime and utilization
- Collect Overall Equipment Effectiveness (OEE) data to optimize your operation
- Enable IIoT for real-time monitoring and decision making

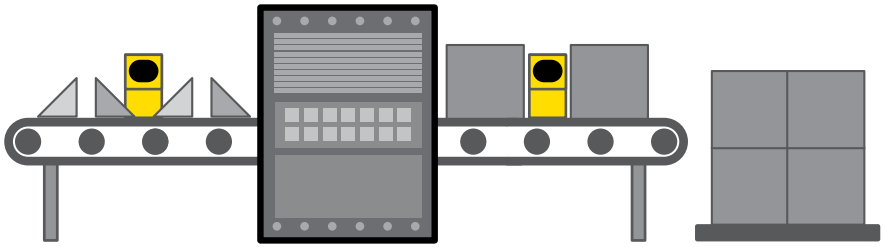
BANNER®

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

# Improve production efficiency

Improve production efficiency by monitoring the in-feed and out-feed of machine/process counts

- Track process and machine availability
- Monitor machine states and performance
- Get data for real time quality measurements
- Create alerts based on user configurable settings to reduce downtime





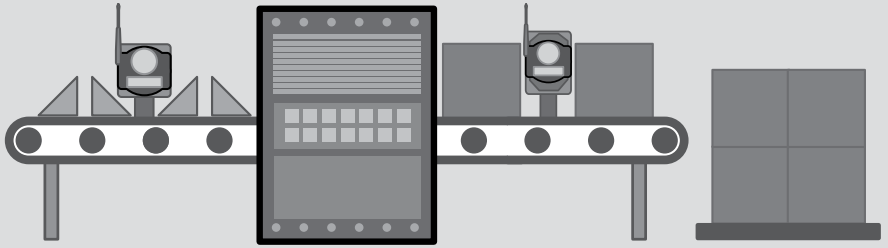
**Q45 Photoelectric**

- Photoelectric sensor with integrated wireless node
- Battery-powered – up to 1.5 years of battery life
- Truly peel & stick for fast installation and ease of changovers
- Totalizes up to 960 parts per minute

# Retrofit processes

Retrofit machines with existing part counting sensors and wireless nodes

- Improve visibility to part counting data
- Easy installation with wireless data transmission
- Monitor production data via scoreboard, PLC or cloud server





**Performance – P16E Node**

- Two configurable asynchronous counter inputs Totalize up to 10,000 parts per second
- 10 to 30 V DC power
- Battery backup – never lose a count
- Wire in any sensor – including existing sensors
- Field wireable terminals
- LCD display to read counts on the line
- Outputs available to activate a warning light



**Performance – P14 Node**

- One configurable asynchronous counter input Totalizes up to 10,000 parts per second
- Battery-powered – easy-to-install
- Wire in any sensor – including existing sensors
- Field-wireable terminals
- LCD display to read counts on the line

# Collect count data

## Control wireless networks, collect count data, and create alerts

- Track counts and time stamps for machine states
- Utilize OEE Solution Guide to configure part counting system
- Connect to the network and send data to the cloud or PLC
- Send text or email alerts



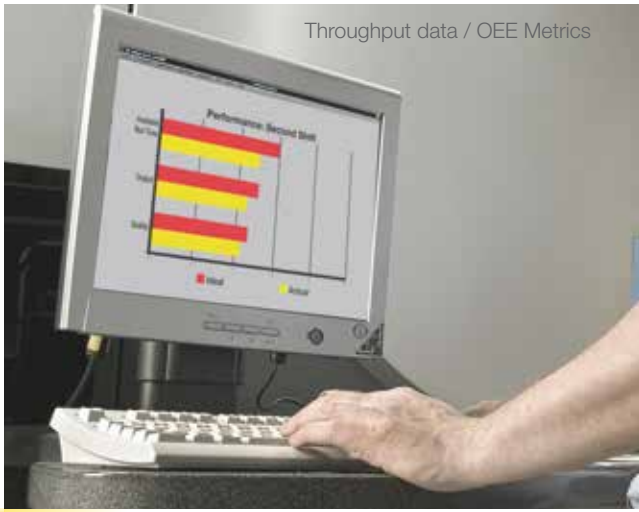
**DXM100 and DXM150 Controllers**

- Ethernet and cellular connectivity for IIoT
- Event/data logging with email and text push
- User programmable LCD
- Notifications, alerts, alarms
- Add other devices to your wireless network









# Order Now

## Wireless Q45 Sensors



| Models | Frequency | Sensing Range | Inputs and Outputs |
|---|---|---|---|
| **DX80N9Q45D** | 900 MHz | 300 mm | Diffuse mode photoelectric sensor with event counter |
| **DX80N2Q45D** | 2.4 GHz | | |



| Models | Frequency | Sensing Range | Inputs and Outputs |
|---|---|---|---|
| **DX80N9Q45LP** | 900 MHz | 0.15 to 6 m | Retroreflective photoelectric sensor with event counter |
| **DX80N2Q45LP** | 2.4 GHz | | |

## Performance Series Nodes



| Models | Frequency | |
|---|---|---|
| **DX80N9X1S-P14** | 900 MHz | **Inputs:** One configurable discrete, one configurable analog, one thermistor, one asynchronous counter<br>**Switch Power Outputs:** One |
| **DX80N2X1S-P14** | 2.4 GHz | |



| Models | Frequency | Inputs and Outputs |
|---|---|---|
| **DX80N9X1S-P16E** | 900 MHz | **Inputs**: Two configurable asynchronous counters |
| **DX80N2X1S-P16E** | 2.4 GHz | **Outputs:** Four NMOS |

## DXM Wireless Controllers



| Models | Description |
|---|---|
| **DXM100-B1R1** | Wireless Controller with DX80 ISM 900 MHz radio |
| **DXM100-B1R3** | Wireless Controller with DX80 ISM 2.4 GHz radio |



| Models | Description |
|---|---|
| **DXM150-B1R1** | Wireless Controller with DX80 ISM 900 MHz radio |
| **DXM150-B1R3** | Wireless Controller with DX80 ISM 2.4 GHz radio |
| **DXM150-B2R1** | Wireless Controller with DX80 ISM 900 MHz radio |
| **DXM150-B2R3** | Wireless Controller with DX80 ISM 2.4 GHz radio |

Additional information and complete specifications can be found on the product datasheets.

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