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
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

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

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

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
- Outputs available to activate a warning light

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
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
Wireless Q45 Sensors

<table>
<thead>
<tr>
<th>Models</th>
<th>Frequency</th>
<th>Sensing Range</th>
<th>Inputs and Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>DX80N9Q45D</td>
<td>900 MHz</td>
<td>300 mm</td>
<td>Diffuse mode photoelectric sensor with event counter</td>
</tr>
<tr>
<td>DX80N2Q45D</td>
<td>2.4 GHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Performance Series Nodes

<table>
<thead>
<tr>
<th>Models</th>
<th>Frequency</th>
<th>Sensing Range</th>
<th>Inputs and Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>DX80N9X1S-P14</td>
<td>900 MHz</td>
<td>300 mm</td>
<td>One configurable discrete, one configurable analog, one thermistor, one asynchronous counter</td>
</tr>
<tr>
<td>DX80N2X1S-P14</td>
<td>2.4 GHz</td>
<td></td>
<td>Switch Power Outputs: One</td>
</tr>
</tbody>
</table>

DXM Wireless Controllers

<table>
<thead>
<tr>
<th>Models</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXM100-B1R1</td>
<td>Wireless Controller with DX80 ISM 900 MHz radio</td>
</tr>
<tr>
<td>DXM100-B1R3</td>
<td>Wireless Controller with DX80 ISM 2.4 GHz radio</td>
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<td>Wireless Controller with DX80 ISM 2.4 GHz radio</td>
</tr>
<tr>
<td>DXM150-B2R1</td>
<td>Wireless Controller with DX80 ISM 900 MHz radio</td>
</tr>
<tr>
<td>DXM150-B2R3</td>
<td>Wireless Controller with DX80 ISM 2.4 GHz radio</td>
</tr>
</tbody>
</table>

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