Increasing Production Line Efficiency with the Wireless Q45s

BENEFITS

- Technicians and managers are automatically notified when and where their attention is needed, reducing time spent away from their work stations

- Production employees are able to request assistance instead of leaving their work stations to search for a specific technician or manager

- Production efficiency improved and operator throughput increased

APPLICATION

An electronic component assembler needed to increase the efficiency of its production lines by reducing the amount of time technicians and managers were away from their work stations.

The previous system required operators to manually walk over to the manager area to request more work or assistance with a technical issue.

SOLUTION

Using Wireless Q45 Sensors and EZ-LIGHTs, the customer created a notification system.

Each production area has one switch box and one tower light connected to the input on a Wireless Q45 Sensor with dry contact inputs. When a manager or technician is needed on the production line, an employee flips a switch.

If a manager is needed on the production line, the operator flips the manager switch. A tower light installed near the managers is connected to the Gateway's outputs. The tower lights indicate which production line needs a manager's attention. At the same time, the tower light installed at that production line also lights up.

The colors of each of the tower lights are assigned to indicate the need for a technician (red), manager (yellow).

RESULTS

Using the tower light notification system reduces the need for technicians or managers to constantly check each production line.
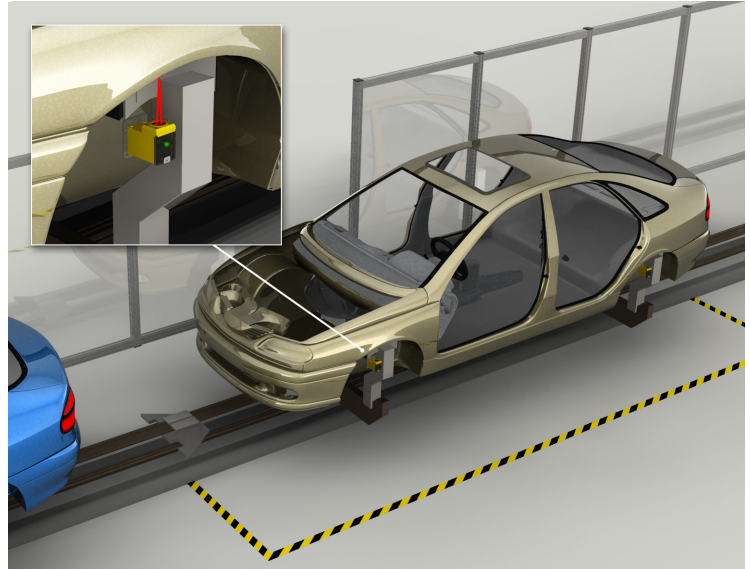
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Gateway at Manager/Technician Work Area

Model	Description	Qty
DX80G2M6-QC (2.4 GHz)	DX80 Gateway in IP67 housing with 6 discrete inputs and 6 discrete outputs Requires 10–30V dc power. Ships with power cable, 2 dB Omni antenna, mounting hardware	1
K50LGRY2PQ	K50L EZ-LIGHT	1
PSDINM-24-10	Power Supply, 24V dc	1
BWA-HW-006	Modbus 485 to USB converter cable with User Configuration Tool software to map I/O between the Gateway and Nodes.	1
SMBDX80DIN	DIN-rail mounting bracket for radio and power supply (optional)	1
DIN-35-105	DIN-rail section, 105mm long, 35mm design (optional)	2
BWA-EF1086	Fiberglass enclosure, 10" x 8" x 6" (optional)	1
BWA-PA108	Enclosure subpanel, aluminum (optional)	1

Wireless Q45 Sensor at Each Work Station

Model	Description	Qty
DX80N2Q45RD (2.4 GHz)	Wireless Q45 Sensor - Remote Device	1