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Wireless Q45 Photoelectric Sensors

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SUFE COSS 2.40H

Secure Flexible Reliable Scalable Self-contained



more sensors, more solutions

The first self-contained, wireless photoelectric sensor solution

Wireless photoelectrics that meet the demands of industry

Solve challenging factory applications or add sensing to existing industrial systems. Banner SureCross® Wireless Q45 Sensor is the first self-contained wireless standard photoelectric sensor solution designed for your most challenging control and monitoring applications.

- Easily add a single photoelectric sensor in minutes without pulling cables
- Quickly integrate a scalable, wireless sensor network infrastructure to improve efficiency by monitoring and coordinating multiple machines and processes

Wireless Q45 photoelectric models:

- Polarized Retroreflective
- Convergent Visible
- Remote Device Interface
- Fiber Optic



Wireless Q45 Photoelectric Sensor *Turnkey wireless photoelectric sensing solution for challenging industrial applications*

SOLVE THESE CHALLENGES



Cable Replacement. Eliminate power and communication cable runs, conduit, associated labor costs and reduce downtime.



Moving Applications. Add sensing to moving machinery. Replace failure-prone slip rings in rotary machines and complex, flexible or festooned cabling or ribbons in motion applications.



Remote Applications. Quickly and easily connect locations and applications previously impractical or impossible.



Productivity Solutions. Easily create call-for-parts, error-proofing or call-for-service systems.

PERFORMANCE & FEATURES

True self-contained wireless: No cables, cordsets or external power

Long Range: 3,000 ft. (1 km) line-of-sight minimum

Extended Battery Life: Up to five years on two replaceable AA lithium batteries, depending on sensor and application. See data sheet.

Multiple I/O: Supports a wireless network of up to 47 Q45 sensors per Gateway

Deterministic: Background "heart beat" signal continuously tests connection and provides link loss signal

Real-Time Response: Less than 250 ms

Secure Data Transfer: Bidirectional system uses pseudo-random frequency hopping with cyclic redundancy checksum

Antenna: Built-in

IP67/NEMA 6P: Sealed against liquids and debris common to industrial environments



DX80 Gateway Wireless network master manages wireless communication and provides electrical outputs for attached wireless sensors





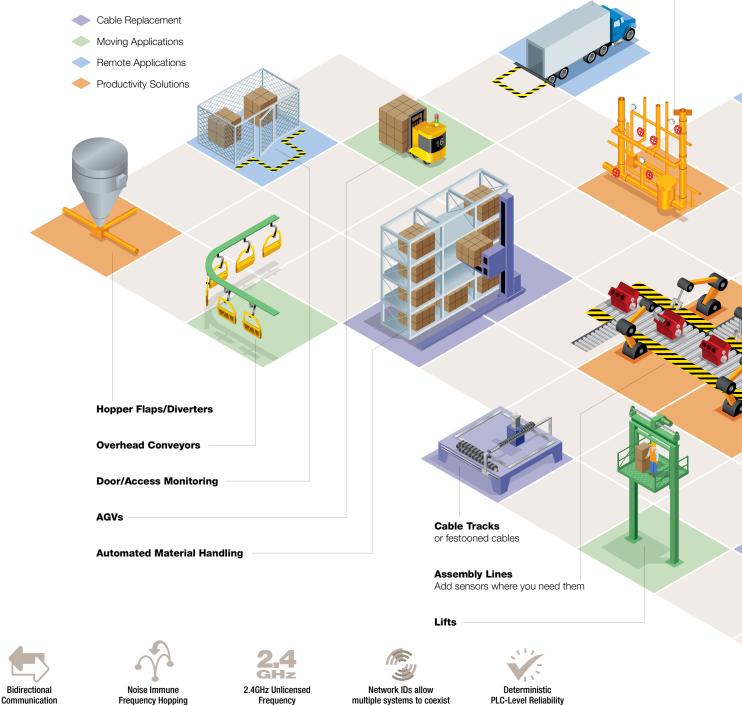


from the first name in photoelectrics.

SENSING UNPLUGGED®

Where can you use wireless sensing?

SureCross Wireless Q45 Photoelectric Sensors are ideal for many conventional photoelectric presence/absence, alignment, position, counting, monitoring and detection applications, with the significant added flexibility of easier deployment and untethered communications in factory automation.



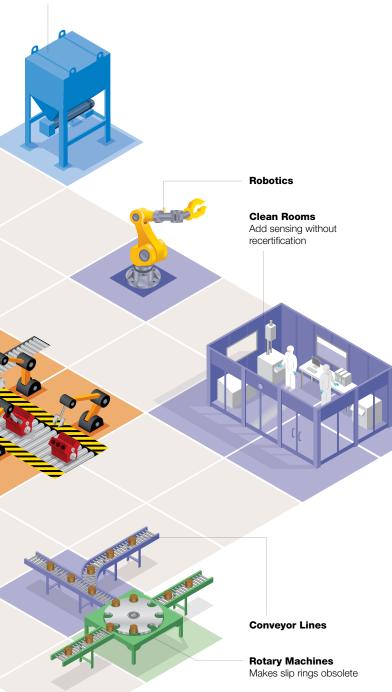
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Dock/Traffic Status

Valve Sensing

Bulk Container Monitoring



Next-generation technology from the leader in sensing. Banner.

SureCross from Banner is the only wireless network developed from the ground up and exclusively for the demands of industrial automation. The Wireless Q45 Sensor represents the next generation of wireless technology – a self-contained sensing solution featuring:

- Banner's industry-leading photoelectric sensor technology
- A secure and robust proprietary radio inspired by PLC networks—providing PLC level functionality, reliability and determinism
- An innovative power management system for unprecedented battery life and efficiency

SureCross Q45 BENEFITS

no external power or radio

than hardwired sensor networks

installation and set up within minutes

sensors where you need them

"AA" Lithium batteries last up to 5 years

second and the from one to hundreds of sensing points

comment to remote locations and applications previously impossible

Indeatonic system efficiency and up time

includes binding, CRC checks, link health monitoring and default output state

from Wi-Fi based security threats

INTERVIENCE to electrical interference



Wireless Q45 Sensors



Two Point System -B2Q Gateway supports one or two sensors



Six Point System -Q, -QC Gateways support up to 6 sensors

Accessories

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Complete accessories selection available at **bannerengineering.com**

Model Number Description Cordsets MQDMC-406 4-pin M12 Euro-Style Cordset, male 6 feet FIC-M12M4 4-pin M12 Euro-Style field wireable Brackets SMB30SC Bracket, plastic swivel
D sensor) male 6 feet FIC-M12M4 4-pin M12 Euro-Style field wireable Brackets SMB30SC Brackets SmB30SC
Brackets SMB30SC Bracket, plastic swivel
Brashed places of the
(for all)
SMB30A Bracket, right angle stainless steel
Battery BWA-BATT-006 2 AA Lithium Batteries
Antennas BWA-205-C Antenna, 2.4 GHz 5 dBi, RP-SMA male, 6½ inches
BWA-207-C Antenna, 2.4 GHz 7 dBi, RP-SMA male, 91⁄4 inches
BWC-1MRSFRSB1 RG58, RP-SMA to RP-SMAF Bulkhead, 1M
BWC-LMRSFRPB Surge Suppressor, bulkhead, RP-SMA
Supplies PSDINM-24-10 24 volt Power Supply, DIN rail 1.0 Amp
Other DIN-35-70 DIN Rail 70mm long
SMBDX80DINDIN Rail Bracket for standard DX80 housing
BWA-HW-034 DIN Rail Bracket for small -B2Q PCB Gateway
BWA-EF14128 Enclosure, fiberglass, 14" x 12" x 8"
BWA-PA1412 Back Panel for enclosure
BENC-4 Enclosure for -B2Q Gateway

Wireless Q45 Sensors

Model Number	Sensing Mode		
DX80N2Q45LP	Polarized Retroreflective		
DX80N2Q45CV	Convergent		
DX80N2Q45RD	Remote Device Interface		
DX80N2Q45F	Fiber Optic		

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DX80 Gateways

Model Number	Sensor Inputs	Configuration	Rating
DX80G2M6-B2Q	2	Board Mount	-
DX80G2M6-QC	6*	External Terminal Blocks	IP20
DX80G2M6-Q	6*	Sealed Enclosure	IP67

*Up to 47 sensors possible using Modbus PLC

Wireless sensors can also be connected to all 2.4 GHz DX80 Gateways

45-plus years of sensor design experience, quality control, sales support and cost-effective solutions

- · Banner quality products with global availability
- More than 20,000 different products across 40 industries
- Rapid customization with most products shipping in 3 days or less
- Industry's largest force of application engineers to solve your toughest challenges
- More than 3,000 factory and local field representatives to serve you
- Worldwide presence with a friendly, local approach

Machine Safet Sensors Vision Presence Pattern Recognition Bin & Part Picking Process Control · Safety Light Screens & Monitorina Absence Complex Part Inspection • Error Proofing Fiber Optic Safety Factory Automation Systems Inspection Multi-Component Gauging · Pick-to-Light & Call for Parts Agriculture & Water Safety Modules & Visual & Audible Indication Gating Part ID/Orientation Management Controllers • Counting Assembly Verification Operator Guidance Traffic Monitoring • Emergency Stop Devices Measurement Print Verification Visual Management & Control · Safetv Interlocks Position Traceability (Bar Code Andon Indication Commercial & • Ergonomic Two-Hand and Text) Pilot & Stack Light Consumer Monitoring Control & Run Bars Replacement



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more sensors, more solutions

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