

STEINER

BANNER Q4X SENSOR SERIES

RUGGED ALL PURPOSE PHOTOELECTRIC SENSOR



BANNER

The Banner Q4X Sensor Series provides versatile, rugged laser distance sensors offering superior performance and capable of detecting sub-millimeter changes in distance. The Steiner Automation & Controls team can help you review and select the

right Q4X Series Sensor based on sensing range, analog or discrete input/output, IO-link, resolution/repeatability, and housing style compatible with your required detection application.

Q4X Sensor Series Features

- Discrete, analog (0 to 10 V or 4 to 20 mA), clear object, and IO-Link models available
- Reliable sensing range from as close as 25 mm and as far as 610 mm
- Detects across a variety of target colors, materials and surfaces based on distance
- Clear distance readout from angled four-digit display
- Robust housing rated to IP69K with FDA-grade stainless steel
- Easy setup with responsive buttons
- Rugged design resists mechanical impact, over tightening and extreme vibration
- Dual teach mode (intensity + distance) is ideal for error-proofing applications and enables clear object detection with no retro-reflector required

Sample Applications



Carton Stack Height

Frequent product changeovers, reduce setup time.



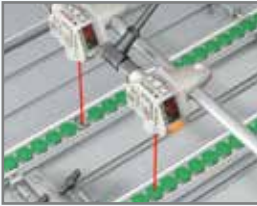
Bottle Fill Level Detection

Measure fill level, provide feedback on height of pills



Integrated Circuit Orientation

An iVu Plus sensor checks the orientation of each integrated circuit



Cap Orientation Verification

Sanitary environment, subjected to aggressive chemical washdowns



Rubber Washer Detection on Engine Block

Dark material detection, risk of impact



Detecting Black Parts on Black Door Panel

Differentiate between foam and poor contrast background



Close Proximity Error Proofing on Assembly Line

Multiple sensors, confirm part presence and position



Error Proofing for Integrated Circuit Chips Loaded into Pocket Tape

Detect presence and orientation of each integrated circuit



Hard Disk Detection

Detect whether shiny disks are properly seated



Black Plastic Tray Detection at a Hopper and Filling Station

Dark material moving at high-speeds inside a hygienic environment



Detecting Clear Glass and Plastic PET Bottles in Washdown Environment

Washdown environment, IP69K ratings required



Detecting Clear Bottles to Trigger Shrink Sleeve Labeler

High-speed labeler processing 800 bottles per minute



Clear Tray Detection at Hopper Food Storage Units

IP69K rating and washdown ready, reliably detect clear or translucent objects



Detecting Transparent Bottles in a Washdown Environment

Detect accumulations to regulate line pressure



Clear Plastic Food Container Detection in a Sanitary Environment

Sanitary environment, IP69K rating required



Counting Multicolored Reflective Packages on a Conveyor

Counting reflective and wrinkled packaging on a conveyor

For more info about **Q4X Series Sensors** call 1-800-**STEINER** (783-4637) to speak with a Steiner Automation & Controls application engineer or email automation@stnr.com.

www.steinerelectric.com

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