

WPS 900



The Widest Sensing Range for Edge Detection and More

Key Features

- **Zero recalibration** – sensor adapts automatically to any material (clear, opaque, metallic, nonwoven, mesh)
- **Extra-large sensing range** – 900 mm (35.4 in) for the widest web applications
- **Material-agnostic detection** – fiber-optic technology based on light scattering and spatial filtering
- **Temperature immune** – unlike ultrasonic sensors, performance unaffected by temperature changes
- **One sensor, multiple applications** – edge guiding, width measurement, centerline detection

Benefits

- **Stop losing hours** to sensor recalibration when switching between materials
- **Eliminate changeover delays** – no manual sensor adjustments between product runs
- **End quality escapes** caused by undetected sensor drift between changeovers
- **Remove safety risks** from operators accessing sensors in awkward positions
- **Prevent hidden scrap** from temperature-related inaccuracies that plague ultrasonic sensors

*Note: WPS is a legacy product line. For new installations, consider the **ODC 960** with enhanced features.*

Specifications

| | | | |
|-------------------------|---|----------------------------|-------------------------------|
| Sensor Type | Fiber Optic (diffuse-reflective) | Sensing Range | 900 mm (35.4 in) |
| Image Sensor | 1D image sensor | Resolution | 0.127 mm (0.005 in) |
| Repeatability | >99.9% | Working Distance | 15-25 mm (0.6-1.0 in) |
| Response Time | 20 ms standard | Operating Temp | -10°C to 65°C (14°F to 150°F) |
| Protection Class | IP54 | Controller Required | Yes (SCU5 only) |
| Status | Legacy Product – Consider ODC 960 for new installations | | |

Applications

- Edge position sensing on extra-wide web applications
- Web guiding for wide converting, coating, and laminating lines
- Width measurement for wide materials
- Centerline detection

Compatibility

SUPPORTED LINE SPEEDS

100-500 fpm

SUPPORTED MATERIAL TYPES

Nonwoven, Nonwoven

SUPPORTED WEB WIDTHS

Extra Wide (>72"), Extra Wide (>72")

Available Configurations

| Part Number | Configuration |
|-------------|---|
| 3-400016 | WPS 900-IR QD |
| 3-400116 | WPS 900-IR QD AS |
| 7-020001 | 1" Mounting Bracket for WPS and ODC Sensors |
| 7-020004 | 1.5" Mounting Bracket for WPS and ODC Sensors |

| Part Number | Configuration |
|-------------|---|
| 7-020005 | Mounting Bracket for 1" or 25 mm Extrusion for WPS, ODC and 1DC Sensors |
| 7-020006 | Mounting Bracket for 1.5" or 40 mm Extrusion for WPS, ODC and 1DC Sensors |

Supporting Documentation

Manuals (3)

- ODC and WPS Installation for Center Guiding and Web Width Measurement
- Sensor Installation Recommendations: Inspection Applications
- WPS 112/221/440/900 or ODC 96/192/288/384/480/768/960 Sensor Installation for to Reduce the Effect of Twist

2D Drawings (2)

- New Mounting Brackets for WPS, ODC and 1DC sensors - 1.5 in or 40 mm extrusion
- New Mounting Brackets for WPS, ODC and 1DC sensors - 1in or 25 mm extrusion

3D Models (5)

- 1.5in Mounting Bracket for WPS and ODC Sensors
- 1in Mounting Bracket for WPS and ODC Sensors
- Mounting Bracket for 1.5in or 40mm Extrusion for WPS, ODC and 1DC Sensors
- Mounting Bracket for 1in or 25mm Extrusion for WPS, ODC and 1DC Sensors
- WPS 900-xx QD



Scan for datasheets, 3D models & full documentation
<https://r2r.tech/sensors/wps-900>

Ready to Get Started?

Contact our experts to discuss how this product fits your application.

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