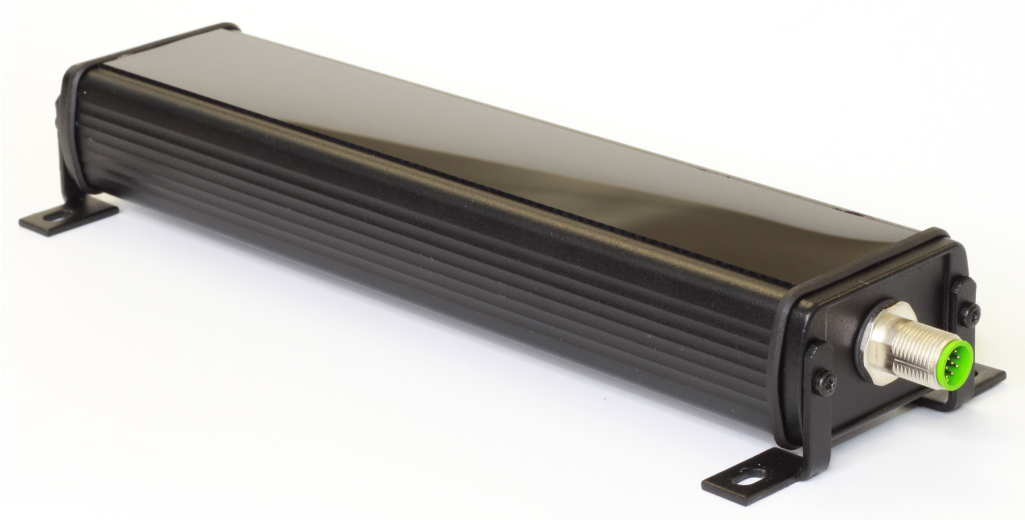
Roll-2-Roll Technologies

PRODUCT BROCHURE

ODC 288



Eliminate Recalibration. Detect Any Material.

Key Features

- **Zero recalibration** – sensor adapts automatically to any material (clear, opaque, metallic, nonwoven, mesh)
- **High resolution** – 0.0635 mm (full) or 0.127 mm (half) hardware resolution
- **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, and more

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 drift that plagues ultrasonic sensors

Specifications

Sensor Type	Fiber-optic (diffuse-reflective)	**Sensing Range**	288 mm (11.3 in)
Resolution	0.0635 mm (0.0025 in) or 0.127 mm (0.005 in)	**Repeatability**	±0.127 mm (±0.005 in)
Linearity Error	<0.25%	**Response Time**	20 ms standard; about 2.8 ms (full resolution) or 1.4 ms (half) with special firmware
Camera Type	CMOS line scan camera	**Light Source**	Infrared (880 nm), UV (385 nm), White light
Working Distance	15-25 mm (0.6-1 in)	**Cable Length**	Up to 10 m (33 ft)
Connector	M12 12-pin male A Coded	**Housing**	Aluminum Extrusion
IP Rating	IP54 (IP64 on request)	**Operating Temp**	-10°C to 65°C (14°F to 150°F)
Controller Required	Yes (SCU5 or SCU6x)	**Vacuum Compatible**	Yes

Applications

- Edge sensing, measurement and guiding
- Centerline web position sensing, measurement and guiding
- Web width measurement and monitoring
- Thread/ribbon inspection
- Flag detection
- Registration mark detection
- Defect detection

Available Configurations

Part Number	Configuration
3-410018	ODC 288-IR QD
3-410028	ODC 288-WL QD
3-410038	ODC 288-UV QD

Part Number	Configuration
3-411018	ODC 288-IR QD HR
3-411028	ODC 288-WL QD HR
3-411038	ODC 288-UV QD HR
7-020001	1" Mounting Bracket for WPS and ODC Family
7-020004	1.5" Mounting Bracket for WPS and ODC Family
7-020005	Mounting Bracket for 1" or 25 mm Extrusion for WPS, ODC Family and 1DC Series
7-020006	Mounting Bracket for 1.5" or 40 mm Extrusion for WPS, ODC Family and 1DC Series

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 (3)

- New Mounting Brackets for WPS, ODC Family and 1DC Series - 1.5 in or 40 mm extrusion
- New Mounting Brackets for WPS, ODC Family and 1DC Series - 1in or 25 mm extrusion
- ODC 288 xx-QD

3D Models (5)

- 1.5in Mounting Bracket for WPS and ODC Family
- 1in Mounting Bracket for WPS and ODC Family
- Mounting Bracket for 1.5in or 40mm Extrusion for WPS, ODC Family and 1DC Series
- Mounting Bracket for 1in or 25mm Extrusion for WPS, ODC Family and 1DC Series
- ODC 288-xx QD

Scan for datasheets, 3D models & full documentation
https://r2r.tech/products/odc-288

Ready to Get Started?

Contact our experts to discuss how this product fits your application.
Phone: +1 (888) 290-3215 | **Email:** experts@r2r.tech | **Web:** r2r.tech