

# Q5Z Laser Measurement Sensors



## Laser Sensor with Simple Setup and Powerful Sensing

- Preconfigured at the factory for simple plug-and-play integration
- Teach through a single-button with feedback from the bright LED indicators
- High excess gain to detect black rubber, shiny metal, and other hard-to-detect objects
- Visible red Class 2 laser with small spot for easy alignment



High Performance Sensor for Quick Installation and Commissioning



Ready Out of the Box

The sensor comes fully configured with powerful Two Point background suppression teach mode. Simply mount it to the machine and use the convenient single button to teach the sensor. If a custom configuration is needed for a high-volume application, please contact Banner Engineering.

Simplified User Interface

A single button is all that is needed to teach the sensor. For greater functionality, IO-Link can be used for advanced programming and diagnostics. In addition, Banner’s Remote Sensor Display (RSD) can be used for product changeover and easy device replacement.

Powerful Performance in a Robust Housing

Banner’s Q5Z offers two independent discrete outputs in a durable IP67 housing that delivers exceptionally high excess gain to detect the most challenging targets from shiny metal to black rubber. Flexible mounting options are available with a variety of brackets, a dovetail mount, and the 270° swivel quick disconnect.

Q5Z Series Laser Measurement Sensor

Emitter	Range	Mode	Output	Connector	Model
Laser	1800 mm	Adjustable-field background suppression	Configurable dual discrete with IO-Link	Integral swivel M12	Q5ZKLAF1800-Q8

Note: The Q5Z Laser Measurement Sensor is a Class 2 laser sensor with IO-Link and a multifunction output. The single teach button and no display mean the sensor must be configured at the factory. This is so that it is ready for installation out of the box. To customize the configuration for an application, contact Banner Engineering.

Specifications



Response Speed	User selectable: 3, 5, 15, 25, or 50 ms
Operating Conditions	–10 to +50 °C 35% to 95% relative humidity
Environmental Rating	IP67 per IEC60529
Construction	Housing: ABS Lens cover: PMMA acrylic Lightpipe and display window: polycarbonate
Temperature Effect	< 0.5 mm/°C at < 500 mm < 1.0 mm/°C at < 1000 mm < 2.0 mm/°C at < 1800 mm
Certifications	CE, cULus, Industrial Control Equipment 3TJJ, IO-Link®

Accessories

**SMBQ5XFAM10**

**SMBAMSQ5XIPRA**

**Double-Ended**  
with 5-pin straight male to 4-pin straight female connectors. Required for use between RSD and sensor.

**MQDC-4501SS**  
0.3 m (1')

**MQDC-4506SS**  
1.83 m (6')

**M12 Straight connector**  
models listed; for right-angle, add **RA** to the end of the model number (example, **MQDEC2-406RA**)

**MQDC-406**  
2 m (6.5')

**MQDC-415**  
5 m (15')

**MQDC-430**  
9 m (30')

**MQDC-450**  
15 m (50')

**RSD1QP** remote display is designed to provide easy sensor configuration and monitoring. Visit our website for more information.

**MQDC-4501SS** **RSD1** **MQDC-4..**