

## WX Series



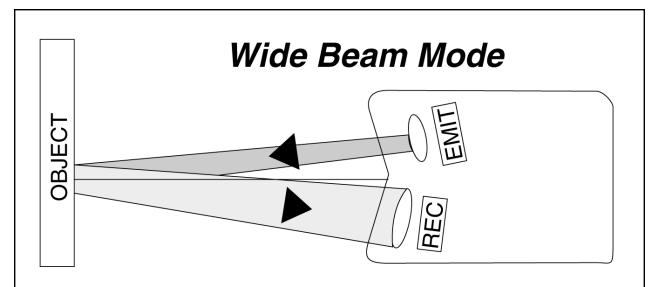
High-performance series featuring wide-beam as well as dual-beam technology. For primary use in the detection and positioning of specular objects. CE and S2-93 certified.

### Key Features

- Wide-beam technology
- Patented dual-beam technology
- Ultra fast response of 200  $\mu$ s
- Indirectly proportional hysteresis
- Digital signal processing logic
- Space-saving small body
- Detects mirror-surfaced objects under a wide angle

### Wide-Beam Technology

The wide-beam technology enhances the performance of our family of reflective photoelectric sensors. Using this technology, the WX Series can achieve greater surface coverage of the detecting object.



*The WX Series utilizes wide-beam technology with dual-beam technology.*

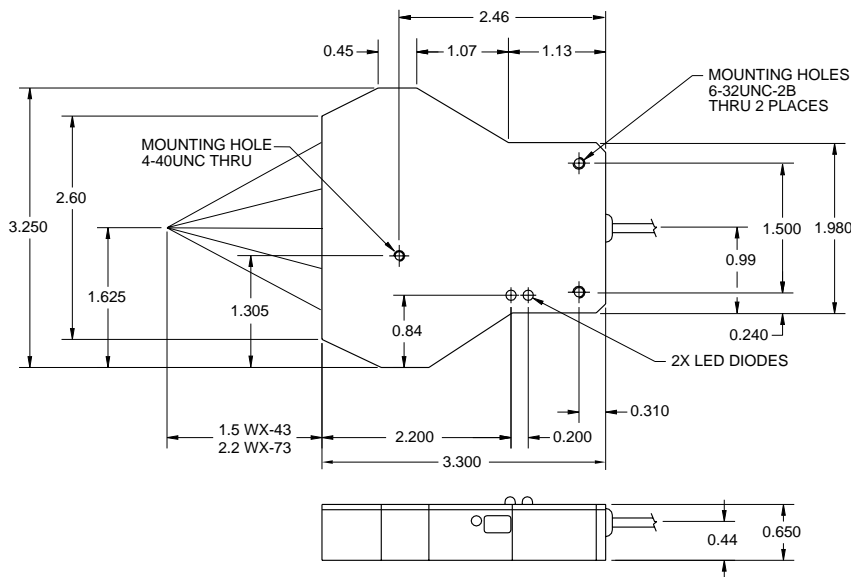
# WX Specifications

	WX-43	WX-73
Method of detection	Reflective wide-beam and dual-beam type	
Detecting distance	1.5" ± 0.2	2.2" ± 0.2
Supply voltage	12 to 24 VDC	
Current consumption	130 mA typical, 260 mA max.	
Light source	800 nm, invisible	
at aperture	2 x 0.2 mW max.	
at CDRH	0.05 mW max.	
Laser Class	Class I	
Detectable objects	Transparent/opaque objects, mirror-surfaced objects	
Laser spot diameter	min. 0.016" x 0.3" (0.4 mm x 8.0 mm) (at measurement point)	
Angular coverage	± 28 degrees	± 23 degrees
Sensitivity adjustments	1. HI GAIN/LO GAIN switch 2. Multi-turn trimmer	
Operation	Light-ON/Dark-ON switch	
Response time	ON time 200 µs max., OFF time 5.0 ms min.	
Indicator	Laser power – red LED, Signal OUT – green LED	
Control output	NPN open collector, 80 mA max.	
Connections	Prewired, 1-ft, 4-conductor cable	
Ambient temperature	Operating: 32 to 110°F (0 to 45°C) Storage: -20 to 130°F (-30 to 55°C)	
Materials	Lens: glass, plastic; Case: aluminum	
Weight	4.2 oz (120 g)	

Careful alignment and adjustment of the sensor is required for optimal performance. Read the instructions before installation. Failure to properly install, align, or use the WX wafer mapping sensor may reduce its performance.

WX laser photoelectric sensors contain no user serviceable parts. Refer all servicing to an authorized CyberOptics Semiconductor products agent. Semiconductor lasers used in the WX wafer mapping sensor generate Class 1 invisible laser radiation. Avoid looking directly at the laser beam.

## Dimensions



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