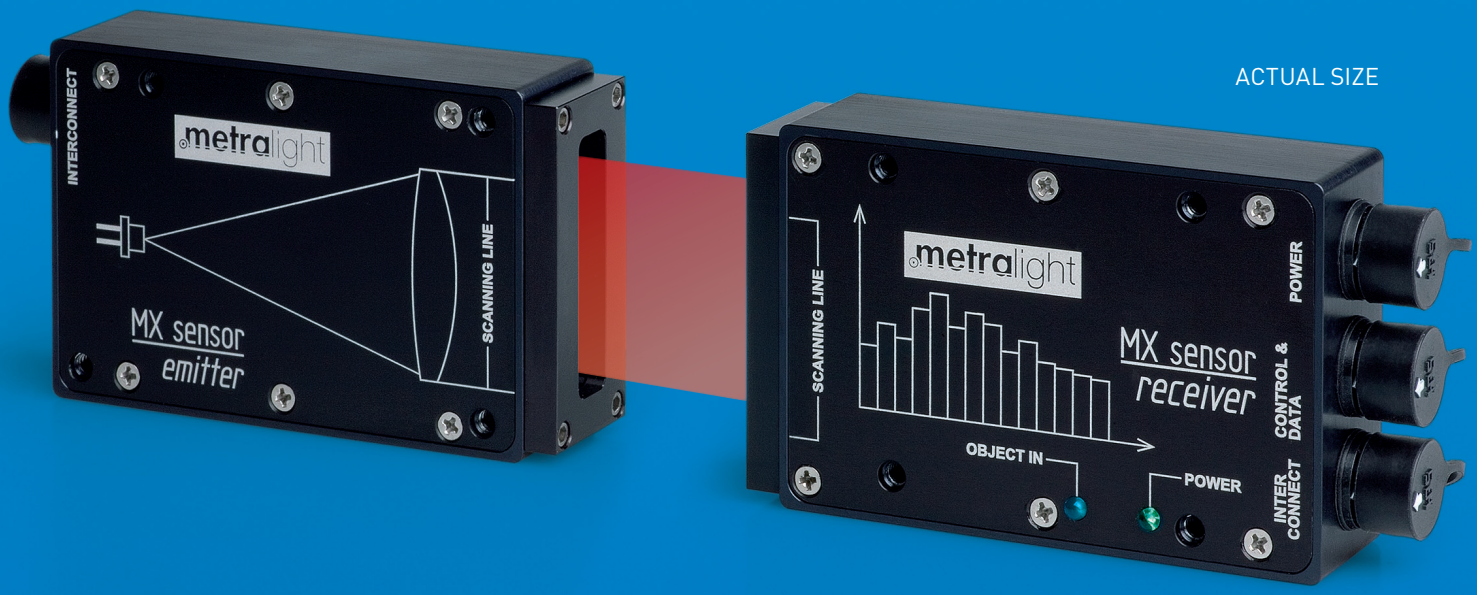
WORLD SMALLEST

MX SERIES LASER MICROMETER

BY METRALIGHT



ACTUAL SIZE

APPLICATIONS

- Standard Measurements of EDGE, GAP, DIAMETER, POSITION, THICKNESS, HEIGHT, PROFILE and VIBRATION

HIGHLIGHTS

- Non contact measurement
- Simple, Fast (>2500 measurements/s) and Reliable
- Compact Size (Emitter and Receiver measures only 76.2 x 50.8 x 20.3 mm)
- High accuracy (Resolution of 0.4375 microns, Non-Linearity <5 µm)
- No External Controllers
- Variable emitter—receiver distance up to 1 meter
- Optional Mounting Rail for preset distances and ease of use
- Easy Installation (sample Application with source code for PC, macro for Excel)
- Laser diode 670 nm Class II
- Parallel, RS232, SPI, Analog, USB, Ethernet, Custom Interface
- Custom Modes are available (i.e. Centering, Minimum and Maximum thickness, Range of tolerances)

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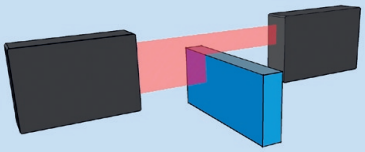
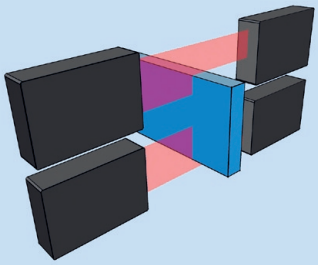
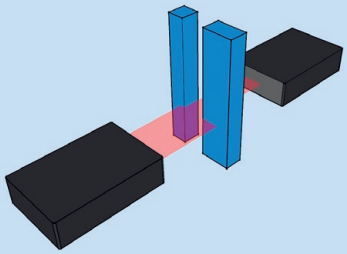
SPECIFICATION	
Object Range	140 µm (0.006 in) up to 28 mm (1.10 in)
Resolution (Pixel size)	0.4375 µm
Repeatability	3 µm (Edge position, calibrated distance)
Response Time	0.391 ms
Non–Linearity	<5 µm (Edge position, calibrated distance)
Measuring Modes	Edge 1, Edge 2, Diameter, Gap, Center, Solid
Detection Method	Laser (670 nm Class II Laser Diode) through-beam with CCD element
Power	12 to 24 VDC / 80 mA
Overall Dimensions	76.2 x 50.8 x 20.3 mm (3" x 2" x 0.8")



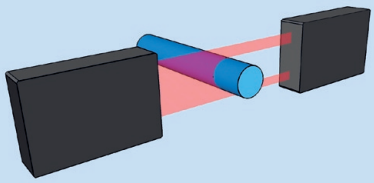
A typical application for EDGE mode. In this mode, a two dimensional profile of a moving or a stationary object can be measured.



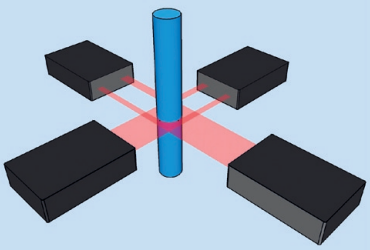
Another application for the EDGE mode. By using 2 parallel sensors to measure the width or profile of a LARGE stationary or moving object.



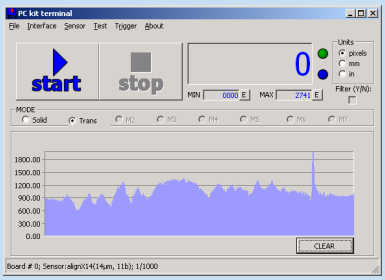
An application for the GAP mode. Gaps can be measured between objects that are either stationary or in motion.



An application for DIAMETER, EDGE 1, and EDGE 2 mode. Additional measurement MODES can be defined by the user. Some examples are: CENTER (the center of the detected object), THRESHOLD measurements (min. or max. diameter), POSITION (the placement of an object) and ORIENTATION (the laterality of the detected object).



The use of 2 perpendicular sensors to measure the X and Y axis of the detected object.



Optional Sample Application with source code in Visual Basic. Excel macro available too. Customizations are welcomed.

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Please contact MetraLight, Inc.
1670 S. Amphlett Blvd., Unit #214-M | Mailstop #1008 | San Mateo, CA 94402
telephone: (650)581-3088 | **fax:** (650)808-9830
email: sales@metralight.com | **web site:** www.metralight.com