LE Series

Laser Sensor

- The LE laser sensors are ready to measure right out of the box with easy adjustment, setup and use.
- Easy adjustment with a two-line, eight-character intuitive display
- Repeatability and accuracy for challenging targets, from metal to black rubber
- Visible class 2 laser for small spot size and simple alignment

LE

Example Model Number: LE550IQ

Family	Range	Output	Laser Class	Connector
LE	550	I		Q
	550 =100-1000 mm **250** =100-400 mm	**I** = 4 to 20 mA analog and (1) NPN/PNP discrete **U** = 0 to 10 V analog and (1) NPN/PNP discrete **D** = (2) NPN/PNP discrete **K** = Dual Discrete with IO-Link	**Blank** = Class 2 **C1** = Class1	**Blank** = 2 m Integral Cable **Q** = Rotatable M12 Euro QD **QP** = PVC M12 Euro Pigtail QD **W/30** = 9 m Integral Cable

NOTE: Discrete NPN/PNP is user configurable

Connection Option: A model with a QD requires a mating cordset.

M12/Euro-Style with Shield
Straight connector models listed; for right-angle, add **RA** to the end of the model number (example, **MQDEC2-506RA**)

5-Pin
MQDEC2-506
2 m (6.5')
MQDEC2-515
5 m (15')
MQDEC2-530
9 m (30')

Additional cordset information is available
See page 758

SMBLEU **SMBLEL** **SMBLEFA**

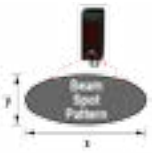
Additional bracket information is available
See page 724

RWAMSLE
replacement windows

SMBAMSLEIP
full assembly with plate and two protective windows

SMBAMSLTFP
mounting plate

LE Specifications

Sensing Beam	Visible red Class 2 laser, 650 nm
Supply Voltage and Current	12 to 30 V dc **Normal Run Mode:** 1.7 W, Current consumption less than 70 mA at 24 V dc
Supply Protection Circuitry	Protected against reverse polarity and transient over voltages
Spot Size	

LE550 Models

	Distance		
	100 mm	**550 mm**	**1000 mm**
X	8.4 mm	10.5 mm	12.1 mm
Y	3.5 mm	4.2 mm	4.9 mm

LE250 Models

	Distance		
	100 mm	**250 mm**	**400 mm**
X	3.2 mm	2.1 mm	1.2 mm
Y	2.2 mm	1.5 mm	0.9 mm

Temperature Effect	**LE250**: ±0.03 to ±0.15 mm/°C **LE550**: ±0.25 to ±0.5 mm/°C
Analog Linearity	**LE250**: ±0.375 to ±0.9 mm **LE550**: ±2 to ±4.5 mm
Analog Resolution	**LE550:** Less than 0.5 mm (100 – 600 mm) Less than 1 mm (600 – 1000 mm) **LE250:** Less than 0.02 mm (100 – 250 mm) Less than 0.2 mm (250 – 400 mm)
Construction	**Housing:** die-cast zinc **Lens:** polycarbonate
Vibration/Mechanical Shock	IEC 60947-5-2
Operating Conditions	**Temperature:** –20 to +55 °C **Humidity:** 90% at +55 °C
Environmental Rating	IP67, NEMA 6
Certifications	CE c UL us LISTED