

# TIME-OF-FLIGHT LASER METERS

## ST263 DistoGAGE

The ST263 Series is a family of optical distance measurement “time-of-flight” style laser sensors with a useful range of zero to 50 feet for most diffuse reflective surfaces. It operates by emitting a collimated laser beam that is reflected from the target surface and collected by the sensor. The sensor is suitable for a wide variety of distance measurement applications that demand high accuracy and fast response times.

**Typical uses include:**

- Mold powder control systems
- Alignment and positioning
- Machining and coordinate measurement
- Thickness and diameter measurement

## KEY FEATURES

- ◆ Zero to 50 feet operating range for most surfaces
- ◆ 0.1 in (2.5mm) accuracy, 0.02 in (0.5mm) short-term repeatability
- ◆ Fast response time – 50KHz maximum rate
- ◆ Lightweight, compact, low power design
- ◆ Tightly collimated output beam for small spot size

SPECIFICATIONS				
Parameter	Units	/LIR	/LV	/RET
Measuring Range	feet	50.0	40.0	50.0
Accuracy (calibrated absolute)	Inches	0.1	0.3	0.1
Beam Diameter / Divergence	Type	0.1 in / 0.5 milliradians		
Beam	Inches	0.03	0.07	0.10
Optical Power	mW	8	5	130
Supply Voltage	VDC	+5 (400mA @ 15V)		
Laser Class	Type	IIIb	IIIa	I, eye safe
Laser Diode	Nm	IR, 780	Visible, 670	IR, 780
Output	Type	Serial, Voltage or Current loop		
Operating Temperature	°F	0 to +113		
Sample Rate	Type	50KHz max, Configurable		
Size	Inches	6.5L x 3.2W x 3.2H		
Weight	Oz.	22		
Electrical Connector	Type	Quick disconnect		
Mounting	Type	ST205 Protective enclosure		

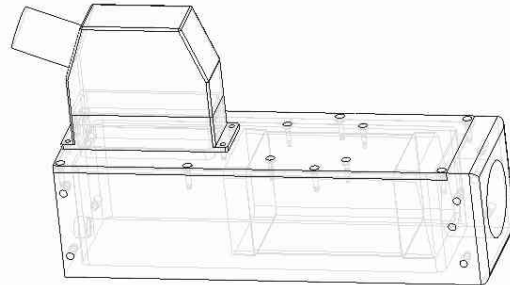
## ST263 DistoGAGE

- Zero to 50 feet range
- Optical distance measurement



## ST205 Protective Enclosures

- Air cooled
- Electrical quick disconnect
- Multi-axis swivel base
- Rugged, mill duty design



## BENEFITS

- ◆ Fast adapting to varying surface properties
- ◆ Designed for industrial applications
- ◆ Enable in-house data collection
- ◆ Obtain accurate real-time data
- ◆ Facilitate ISO certification
- ◆ Eliminate down time

## OPTIONAL ACCESSORIES

- ◆ ST205 Protective enclosures
- ◆ Application software – please call or email
- ◆ Cables (custom lengths)

