

1900 Series

Single Point Laser Displacement Sensor

Non-contact measurement of

- Distance
- Thickness
- Displacement

The BBS is a single-point laser based measuring device. This scanner measures the position of an object in space with precision and flexibility.

This new scanner allows data acquisition to be independent of any kind of background. The BBS scans and measures any object present in front of a background. One can measure an object over a conveyor belt, a chain or a mechanical structure.

A unique analog 4-20 mA output permits the analog resolution to be set in zones and makes interface with a PLC simple. The laser can be set up via onboard push buttons or using the available RS232 serial interface and simple commands.



The laser sensor is available three models, each with a unique adjustable field of view:

1904: 4 inch measuring range

1924: 24 inch measuring range, higher speed

1948: 48 inch measuring range

Features:

- Watertight casing
- Visible laser point
- Simple PLC connection
- Removable background
- Adjustable field of view
- Optional differential mode for thickness applications
- Accurate up to +/- 0.001"
- Can be used as a photocell
- Universal mounting bracket
- Isolated RS-232 and Analog 4-20 mA output, 16 bit
- Rs232 serial output displayed in .001" increments

The Measurement Technology Group

Laser-View Technologies, Inc.

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Freedom Technologies, LLC.

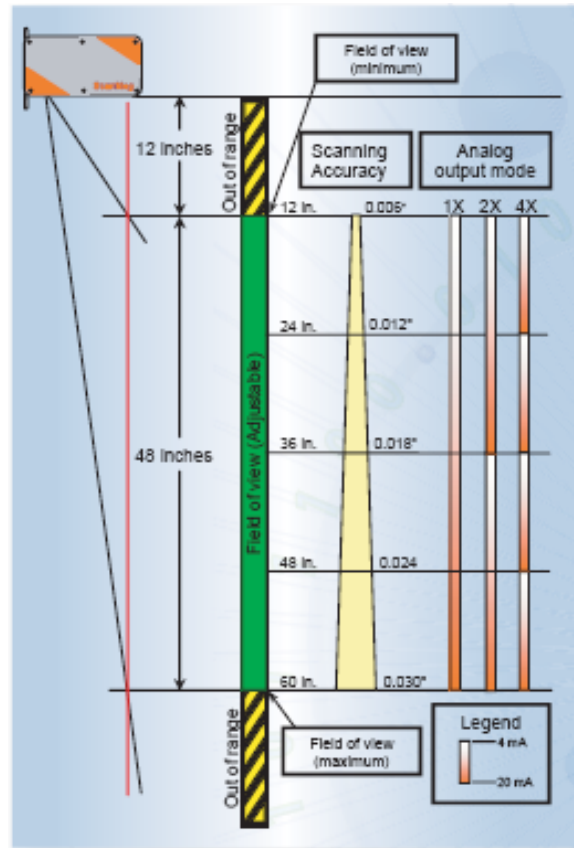
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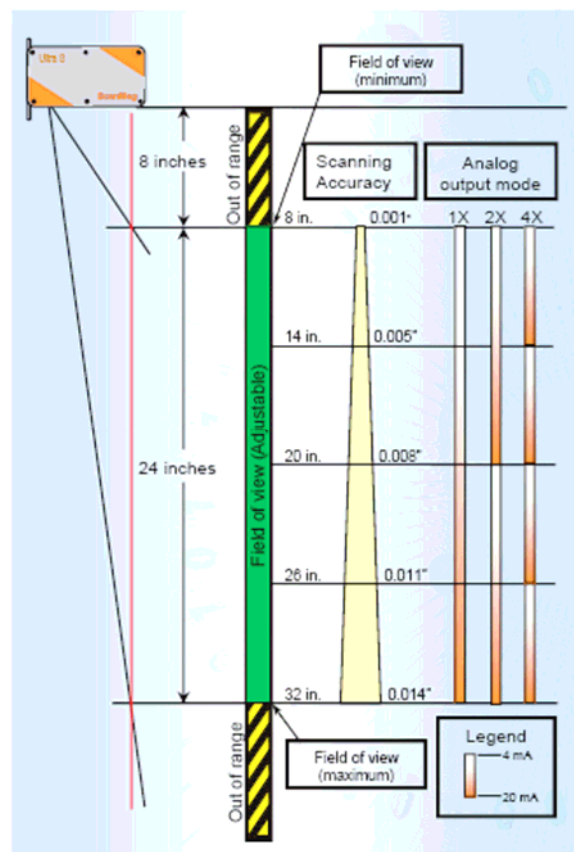
1948

Scan rate:	300 Scans/Sec.
Beginning of field of view:	12 inches
End of field of view:	60 inches
Accuracy:	0.006 inch to 0.030 inch
Communication interface:	RS-232
PLC interface:	4-20 mA Isolated 16 bit
Standard output (PNP):	Open Collector
Power supply:	12 to 24 volts DC @200 mA
Operating temperature range:	0°C to +50°C
Dimensions (L, W, H)	8.3" x 1.2" x 4.0"



1924

Scan rate:	300, 600, 1200 Scans/Sec.
Beginning of field of view:	8 inches
End of field of view:	32 inches
Accuracy:	0.001 inch to 0.014 inch
Communication interface:	RS-232
PLC interface:	4-20 mA Isolated 16 bit
Standard output (PNP):	Open Collector
Power supply:	12 to 24 volts DC @220 mA
Operating temperature range:	0°C to +50°C
Dimensions (L, W, H)	8.3" x 1.2" x 4.0"



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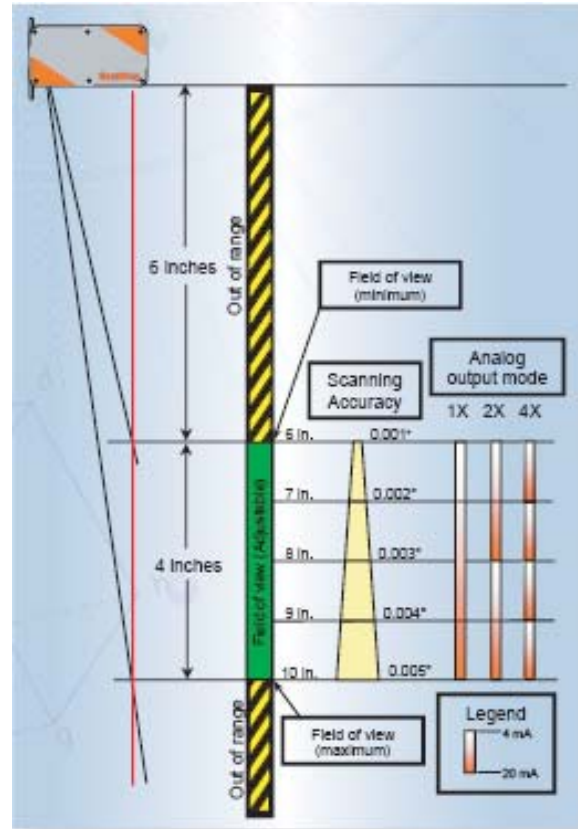
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1904

Scan rate:	300 Scans/Sec.
Beginning of field of view:	6 inches
End of field of view:	1 inches
Accuracy:	0.001 inch to 0.005inch
Communication interface:	RS-232
PLC interface:	4-20 mA Isolated 16 bit
Standard output (PNP):	Open Collector
Power supply:	12 to 24 volts DC @200 mA
Operating temperature range:	0°C to +50°C
Dimensions (L, W, H)	8.3" x 1.2" x 4.0"



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