

Gocator® 1100 SERIES

ALL-IN-ONE 3D SMART DISPLACEMENT SENSORS

The Gocator 1100 series of smart laser displacement sensors are the next generation of distance measuring devices. Ideal for non-contact measurement, Gocators are simple to network and integrate. These compact and light weight sensors are ruggedly designed to handle industrial environments and are ready to deliver results in your most demanding on-line inspection applications, right out of the box.

- PRE-CALIBRATED AND READY TO MEASURE
- SCALABLE TO A SYNCHRONIZED MULTIPLE SENSOR NETWORK
- SMALL FOOTPRINT - FITS INTO TIGHT SPACES
- SETUP & CONTROL VIA WEB BROWSER
- RICH I/O & PLC SUPPORT
- OPEN SOURCE SDK



Gocator 1120

BUILT ON SELCOM & OPTOCATOR SUCCESS

Gocator leverages the latest digital technologies to deliver higher flexibility and performance, and easily integrates into existing systems and delivers ranges over Ethernet, analog, serial, or Selcom Interface.

HIGH SPEED AND ACCURATE

The Gocator 1100 Series samples at a 10kHz scan rate at the highest resolution over a large measurement range (up to 2000mm). These sensors are ideal for dimensional measurements, such as width, height, thickness.

STAND ALONE AND SCALABLE

Designed to be truly standalone, single sensor systems do not require any additional controllers or PCs. Gocator systems can effortlessly scale to multiple sensors using LMI Master hubs. Masters take care of power distribution, laser safety interlock, I/O handling, and microsecond synchronization.



Gocator's built-in web server firmware.

EASE OF USE

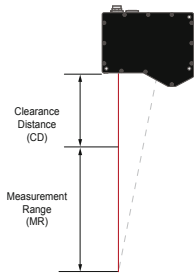
Gocator's built-in web server allows for flexible configuration of profile settings using a web browser. With no additional software to install, Gocator's out of the box setup and configuration is fast and simple. The Gocator 1300 Series is available in two housing package options for easy implementation into any application.

Model	1120	1140	1150	1160	1165	1170	1190
Scan Rate (Hz)	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Clearance Distance (mm)	40	162.5	200	238	562	250	500
Measurement Range (mm)	20	95	200	325	375	400	2000
Linearity Z (+/- % of MR)	0.05	0.03	0.05	0.05	0.05	0.05	0.10
Linearity Z (+/- mm)	0.010	0.03	0.1	0.163	0.19	0.20	2.0
Resolution Z (mm)	0.0004 - 0.0004	0.0005 - 0.0010	0.0015 - 0.0035	0.0015 - 0.0045	0.0035 - 0.0060	0.0025 - 0.0070	0.0250 - 0.0600
Spot Size (mm)	0.11	0.37	0.50	0.70	1.80	0.90	2.60
Standard Laser Class	2M	2M	2M	3R	3R	3R	3B
Available Laser Class*	3R, 3B	3R, 3B	3R, 3B	3B	3B	3B	N/A
Standard Package Dimensions (mm)	Side Mount 30x120x149	Side Mount 30x120x149	Side Mount 30x120x149	Side Mount 30x120x149	Side Mount 30x120x220	Side Mount 30x120x149	Side Mount 30x120x277
Optional Package** Dimensions (mm)	Top Mount 49x75x162	Top Mount 49x75x162	Top Mount 49x75x162	Top Mount 49x75x162	Top Mount 49x75x232	Top Mount 49x75x162	Top Mount 49x75x289
Weight (kg)	0.8	0.8	0.8	0.8	1.1	0.8	1.4

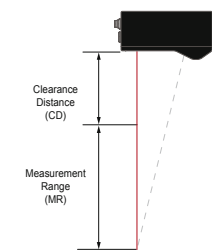
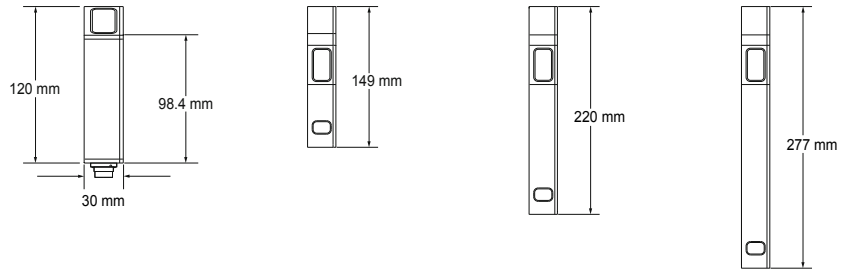
Specifications are preliminary, final specifications may vary. Resolution Z based on 128 samples averaging.
 *Pricing will vary. **Lead times will vary.

All 1100 Series Models	
Interface	Gigabit Ethernet
Inputs	Differential Encoder, Laser Safety Enable, Trigger
Outputs	2x Digital Output, RS-485 Serial, Selcom Serial, 1x Analog Output (4-20mA)
Input Voltage (Power)	+24 to +48 VDC (13 Watts); Ripple +/- 10%
Housing	Gasketed Aluminium Enclosure, IP67
Operating Temperature	0 to 50 °C
Storage Temperature	-30 to 70 °C
Vibration Resistance	10 to 55 Hz, 1.5 mm double amplitude in X, Y and Z directions, 2 hours per direction
Shock Resistance	15 g, half sine wave, 11 ms, positive and negative for X, Y and Z directions

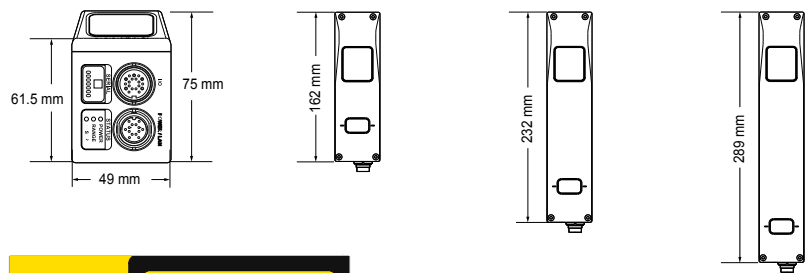
NOTE: Specifications stated reflect standard laser classes, values will vary for other laser classes.



Standard Package - Side Mount



Optional Package - Top Mount



STEMMER[®]
IMAGING