

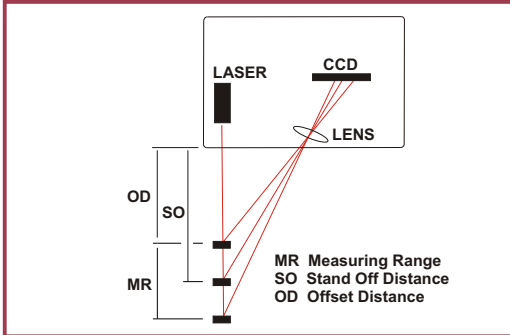


DynaVision - SPR 02 Long Range Sensor



Long Range, CCD Long Standoff Digital Sensors

- Digital-Based Triangulation Sensor Family
- Smart, Self-Contained Sensors
- Up to 255 Sensors on One Multi Drop Serial Line
- Analog and Digital Outputs
- Rugged Industrial Packaging
- Excellent Ambient Light Rejection
- Ideal for Large Standoff Applications



Technical Specification

Model Number	Measurement Range (MR)	Stand Off (SO)	Offset Distance (OD)	Resolution (Worst Case) Note 1	Resolution (Typical) Note 2	Linearity	Triangulation Angle at SO	Spot Size at SO
SPR02 6-32	mm	813	559	0.025	0.0025	0.559	10 deg.	3 x 1
	in	32	22	0.001	0.0001	0.022		0.12 x 0.04
SPR02 16-32	mm	813	813	0.025	0.0025	0.813	7 deg.	3 x 1
	in	32	32	0.001	0.0001	0.032		0.12 x 0.04
SPR02 16-168	mm	4267	2540	0.254	0.0254	2.540	2 deg.	3 x 1
	in	168	100	0.010	0.001	0.100		0.12 x 0.04

Note 1: Worst Case Resolution - at full bandwidth
 Note 2: Typical Resolution - at 128 sample averaging



DynaVision SPR 02

LASER SOURCE

Laser type	GaAlAs	Enclosure	IP-65 / NEMA 4	
Laser class	IIIa	Temperature	°C	0 - 50
Laser source power	mW <5		°F	32 - 122
Wavelength	nm 670	Temp. Fluctuation	% of MR / °C 0.01%	
Lifetime expectancy	hr 100 000	Relative Humidity	% <95 non-condensing	

ENVIRONMENTAL

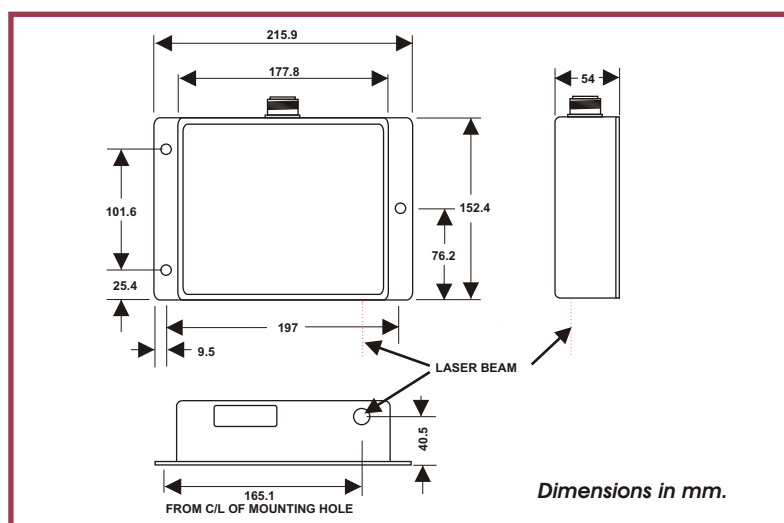
ELECTRICAL

Power supply voltage	VDC +15	Dimensions	mm	215.9 x 152.4 x 54
Current draw	mA < 500 @ 15VDC		in	8.5 x 6 x 2.13
Scan rate	Hz 1 to 1 800 (adjustable)	Weight	kg	1.82
			lbs	4
Detector type	CCD	Cable Length	m	2.5
			ft	8.2

PHYSICAL

OUTPUT INTERFACES

Interface, analog / digital	0-10 VDC, 4-20 ma	RS232	RS-485	RS-422
Data update rate	1800 Hz	1800 Hz	1800 Hz	1800 Hz



CONNECTION WIRING

- A Receive (Rx-)
- B Receive (Rx+)
- C Signal (GND)
- D Transmit (Tx-)
- E Transmit (Tx+)
- F Power (GND)
- G Analog out (GND)
- H Analog voltage out (0 - 10VDC)
- I Analog current out (4 - 20 ma)
- J Power (+15 VDC @ 500 ma)

1- YEAR LIMITED WARRANTY

The company will replace or, at the company's option, repair any system or parts of a system which are found defective in material or workmanship within one year from the date of shipment. Our obligation with respect to such system or parts shall be limited to repair and replacement, F.O.B: our facilities, and in no event shall the company be liable for incidental, consequential or special damages, or for transportation, installation, adjustment or other expenses which may arise in connection with such system or parts. This warranty is expressly made in lieu of any and all other warranties, expressed or implied, including warranties of merchantability and fitness. No waiver, alteration, or modification of the foregoing warranty shall be valid unless made in writing and signed by an executive of the company.

LMI vision sensors are manufactured under one or more of the following U.S. patents: 4,305,661; 4,373,804; 4,375,921; 4,394,683; 4,576,482; 4,667,231; 4,875,776; 5,056,922; 5,114,230; 5,164,579; 5,362,970; 5,510,625; 5,670,787; 5,684,292; 5,691,545; 5,734,172; 5,811,827; 5,854,491; 5,877,491; 5,880,459; 5,940,302; 5,981,965. Other US and foreign patents pending.

www.lmint.com

Head Office:

LMI Technologies Inc.
205-7088 Venture St.
Delta, British Columbia
Canada, V4G 1H5
Phone: +1 (604) 940-0141
Fax: +1 (604) 940-0793
E-mail: sales@lmint.com



North America:

LMI Selcom Inc.
21666 Melrose Ave.
Southfield, MI 48075
USA
Phone: +1 (248) 359-2409
Fax: +1 (248) 355-3283
E-mail: sales@lmint.com
USA East: +1 (770) 888-6586

Europe & rest of the world:

LMI Selcom AB
Box 250
S-433 25 Partille
Sweden
Phone: +46 31 336 25 00
Fax: +46 31 44 61 79
E-mail: sales.lmiselcom.ab@lmint.com

Europe:

LMI Sensors-95
Valkenburgerweg 223
6419 AT Heerlen
The Netherlands
Phone: +31 45 850 7000
Fax: +31 45 574 2500
E-mail: sensors95@lmint.com

