MODULOC® Control Systems

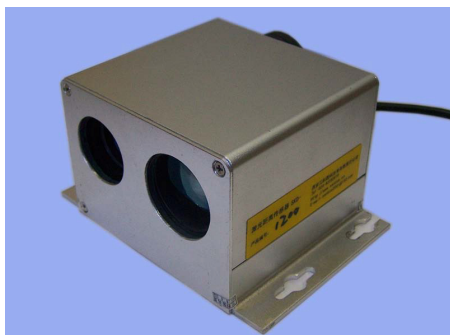## LT5120 Class 2 Collision Avoidance Laser Distance Meter

FEATURES:

- ♦ **Low Cost Laser Distance Meter**
- ♦ **Substantial working range of 1200M**
- ♦ **Class II, 905 nm Laser**
- ♦ **Robust IP67 housing**
- ♦ **Display and Keypad Option**

- ♦ **Multiple outputs available:**
  - **- Serial RS232 or RS422 connection**
  - **- 4-20mA Analogue connection**
  - **- Ethernet TCP/IP connection**
  - **- Dual Programmable alarms**

Description

The LT5120 Laser Distance Meter is a low cost Laser with exceptional working range of 1200M purpose built for implementing on cranes for collision avoidance.

Having this long range means the user can monitor crane position from a single datum such as from one end wall regardless of the number of cranes running on the crane rails. Furthermore, the user can at the same time identify the approximate position of the crane in the storage hall for storage control with the crane operator providing the final positioning.

Various models are available with alternative outputs to suit most user needs. Namely, RS232 or 422 interface, Ethernet TCP/IP or 4-20mA analogue. Otherwise, a Model with dual alarm switch outputs provided.

To facilitate programming of this LT5120 Laser without the need for a PC on the crane, it is also available with a built-in keypad and display.
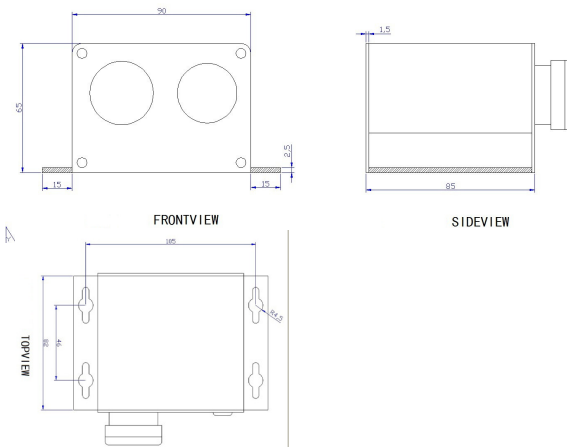
For extreme hot or cold locations, the LT5120 is available with either Peltier cooling or thermocouple controlled heater.

For additional control and safety the serial interface provides text alarm when temperature level outside tolerances and received measured signal too strong or weak or outside the range of the Laser.

Technical Specification:

Range	4-1200M off reflector
Power Supply	24 VDC
Laser Class	Class 2
Laser Wavelength	905 nm
Laser Divergence	60mm per 100M
Power consumption	3 Watt (with heater 15 W)
OUTPUT OPTIONS:	
Serial Interface	RS232
Serial Interface	RS422*
Analogue	4-20mA
Ethernet	TCP/IP*
Programmable Alarms	Triode NPN or PNP 200mA 24VDC
Serial Data Format	8-data bit, 9600 Baud
Measurement Time	0,2 sec.
Operating Temp	0ºC to +40ºC
Accuracy	2mm at 250M/1M at 1200M
Resolution	1mm at 250M /1M at 1200M
Housing	Aluminium
Protection Class	IP67
Dimensions	110(W)x120(L)x70(H)mm

* RS422 and Ethernet TCP/IP connection via remote connection box

FRONTVIEW

SIDEVIEW

TOPVIEW

Model Communication Options

LT5120-232 LT5120M-232	LT5120-422 LT5120M-422	LT5120-MA LT5210M-MA	LT5120-TCP LT5120M-TCP	LT5210-DS LT5120M-DS
Serial RS232 connection	Serial RS422 connection	4-20mA analogue	TCP/IP Ethernet	Dual Switch Alarm

* M denotes Laser provided with Control Panel and Display at additional cost

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