A Higher Level of Performance



Data Sheet

OptioLaser L200

Level, Distance & Position Measurement of Solids and Liquids



For more information, please visit > www.hawkmeasurement.com





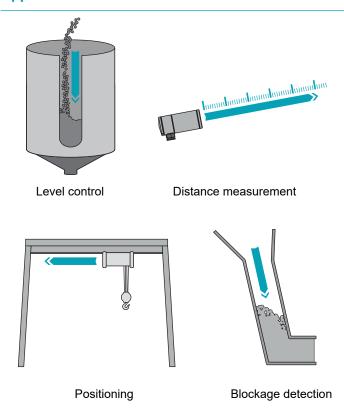




Principle of Operation

The OptioLaser L200 is a non-contact laser sensor used to measure the distance to solid and liquid surfaces, slurries or murky water. Solid surfaces can be anything from a metal plate on the side of an overhead crane, to the top of material stored in a silo. With an easy to use menu system, the OptioLaser can be configured for either distance or level measurement and the high accuracy, long range and fast update rate make this the ideal sensor for many different applications.

Applications



Technical Specifications

Performance dat	a		
Sensing range	0.3 100 m (0.98' 328')		
Resolution	10 mm (0.39")		
Accuracy	< 0.1% of full range at 20°C		
Update rate	5 readings per second		
Technical data			
Power supply	220 / 110 V ac or 24 V dc nominal (12 28 V dc)		
Current consumption	100 mA nominal		
Output			
Analog	4 20 mA NAMUR compliant self-powered & non-isolated. 2 x Relays (N/O), 60 V dc at 3.5 A.		
Communication	USB at 115200 baud 8-N-1		
Mechanical			
data			
Diameter	L200 : 88.9 mm (3.5")	L200/DT: 140 mm (5.51")	
Length	L200 : 180 mm (7.09")	L200/DT: 110 mm (4.33")	
Weight	L200 : 2 kg (4.41 lb)	L200/DT: 1.5 kg (3.31 lb)	
Connection	Flange accessory (L200 /DT) with with 4 Ø 8.5 mm holes on 120 PCD		
Housing material	303 Stainless steel		
Optical data			
Laser power	Measuring laser: 15 W (peak)	Visible aiming laser: < 5 mW red	
Optical aperture	75 mm (2.95")		
Beam divergence	< 1° to half power points		
Lens material	Impact resistant acrylic		
Laser safety classification	Measuring laser: Class 1M	Visible aiming laser: Class 2	
	CAUTION: Do not view laser directly with optical instruments.	CAUTION: Do not view laser directly with optical instruments	
Environmental d	ata		
Operating temp.	-20°C +60°C		
Pressure	Atmospheric		
Enclosure rating	IP66		

Features

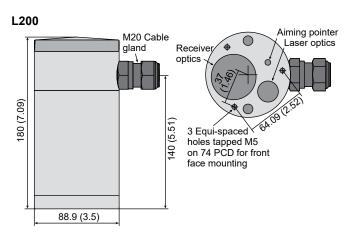
- · Non-contact measurement with laser technology
- 303 Stainless steel housing
- Measurement range up to 100 meters (328 feet)
- Continuous measurement with a resolution of 10 mm
- NAMUR compliant 4...20 mA output

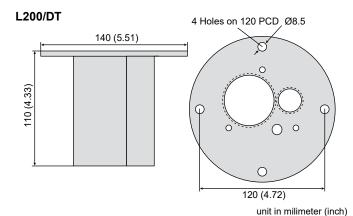
- 2 Normally open relay outputs
- Easy conguration via USB
- 220 / 110 V ac or 24 V dc power supply
- Visible aiming pointer



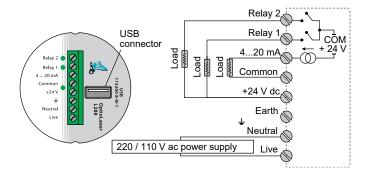


Dimension Drawings





Connections



OptioLaser L100/L200 Laser Transmitter Spare Parts

Model

LXDT Dust Tube for L100/L200 OptioLaser Laser Level Transmitter

LXHP Handheld Programmer for L100/L200 OptioLaser Level Transmitter

LXSB Swivel Bracket for L100/L200 OptioLaser Laser Level Transmiteer

Software Menus

- · Open Laser Terminal Software and connect.
- Press the <CORRESPONDING> keyboard key to access the settings menu.
- Press the keyboard key to select the required menu item.
- To restart measurements, press the <SPACE> keyboard key.

Menu	Selection	Default value
<a> 4 20 mA settings	 4 mA	25.00 m
	<c> 20 mA</c>	0.60 m
	<d> Fail safe current</d>	> 21.0 mA
	<e> Test</e>	21.50 mA
	<g> Relay A switch point 1</g>	1.00 m
	<h> Relay A switch point 2</h>	2.00 m
	<i> Relay A mode</i>	near => closed far
<f></f>		=> open
Relay settings	<j> Relay B switch point 1</j>	1.00 m
	<k> Relay B switch point 2</k>	2.00 m
	<l> Relay B mode</l>	near => closed far
		=> open
	<m> Relay test</m>	A:closed B:closed
	<o> Measuring units</o>	meters
	<p> Zero distance offset</p>	0.00 m
<n></n>	<q> Lost signal timeout</q>	4.0 sec
System	<r> Smoothing filter</r>	ON
settings	<s> Filling rate filter</s>	OFF
	<u> Moving obstacle filter</u>	ON
	<v> Obstacle filter size</v>	16 results
	<w> Visible aimer</w>	OFF

OptioLaser L200 Laser Transmitter for Level

Model

L100 L200 OptioLaser Laser Level Transmitter (up to 164ft)
OptioLaser Laser Level Transmitter (up to 328ft)

Dust Tube + USB Programming Cable (Required for every OptioLaser L100/L200)

DT Dust Tube, Stainless Steel

Accessories - Handheld Programmer (Optional)

HP Handheld Programmer

XX Not Required

Accessories - Swivel Bracket (Optional)

SB Swivel Bracket
XX Not Required

L200 DT HP SB



Contact

OptioLaser L200



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Represented by:

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