



LASER SENTINEL SERIES

Safety Laser Scanner

Stand Alone and Master/Slave Models

QUICK GUIDE



*This Quick Reference Guide does not replace the Instruction Manual. Download the Instruction Manual by reading the QR code here or at www.datalogic.com. Click on **Support > Search by product** and enter the Laser Sentinel family name, then select your product from the dropdown list. Click on the **Manuals & Technical Literature** link to download your Instruction Manual. The Instruction Manual must be available at all times when installing and working with the product.*



Scan or tap on the QR code to download the Instruction Manual

SAFETY INFORMATION



For a correct use of the Laser Sentinel, the following points must be observed:

- The machine stopping system must be electrically controlled.
- This control system must be able to stop the dangerous movement of the machine within the total machine stopping time T and during all the working cycle phases.
- The device mounting and connections must be carried out by qualified personnel only, according to the indications included in the special sections (refer to chapters 6 and 7 of the Instruction Manual) and in the applicable standards.
- The safety laser scanner must be securely placed in such a way that access to the dangerous zone is not possible without passing through the safety area (refer to chapter 5 of the Instruction Manual).
- The personnel operating in the dangerous area must be well trained and must have adequate knowledge of all the operating procedures of the safety laser scanner.
- In case of Manual Restart, the Restart button must be located outside the safety area to let the operator control the safety zone during resetting or testing sessions.
- Please carefully read the instructions for the correct functioning before powering the device.
- The requirements for the electrical safety and electromagnetic compatibility and the regulations or standards in all countries and/or regions, must be met by the power supply where the Laser Sentinel is used. If the Laser Sentinel power supply is shared with the machine or other electronic devices, voltage reduction to the Laser Sentinel or noise influence on the device may occur due to the temporary increase in current consumption on the machine or the other electronic devices. We do not recommend sharing the Laser Sentinel power supply with the one for the machine or the other electronic devices, because a device error status may occur.
- Do not place the connection cables in contact with or near high-voltage cables and/or cables with undergoing high current variations (e.g. motor power supplies, inverters, etc.).
- Do not connect any of the Laser Sentinel inputs to DC power sources outside of the declared range or to any AC power source, in order to avoid the risk of electric shock.
- Every access to the configuration tools must be allowed to restricted and highly qualified personnel only. Access to the configuration through the GUI is only allowed by password.
- Periodically monitor the optic window during the entire product lifecycle checking for any damage, scratches or dirt spots. In the presence of highly reflective backgrounds, these may cause a reduction in the detection capability of the scanner.
- The laser scanner must not be used underwater or in explosive hazardous areas.
- The laser scanner is not suitable for outdoor use.



Class 1M laser product. Invisible laser radiation. Do not view directly with optical instruments.
IEC 60825-1:2007 & 2014.



Failing to respect the instructions contained in this manual and in the Instruction Manual may affect the detection capability and correct functioning of the laser scanner.

MECHANICAL MOUNTING

For mechanical mounting, the Laser Sentinel has two different procedures depending on the operation necessities. The two mounting possibilities are: direct mounting or angle adjustment bracket mounting (if the pitch and the roll angles need to be adjusted).

Optionally, the protection bracket can be added to applications using the angle adjustment brackets.



Required tool: adjustable torque driver with 3 mm hex bit.

DIRECT MOUNTING

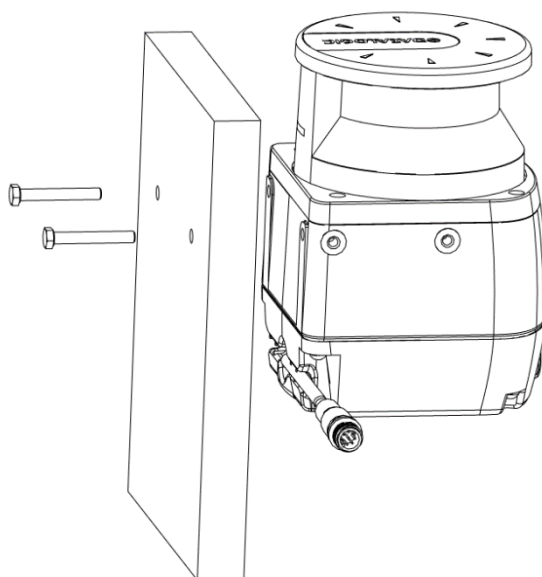
The device has two M5 threaded holes on the back and four M5 threaded holes on the side.

For direct mounting, use both M5 threaded holes in the back or all four M5 threaded holes on the two sides, taking into account the following values:

- M5 on the back (tightening torque 2.3 - 5.5 Nm), maximum depth of thread engagement 9.5 mm.
- M5 on the side (tightening torque 2.3 - 3 Nm), maximum depth of thread engagement 8 mm.



For direct mounting on the sides, if the wall or panel obstructs the output window, this plane cannot be used for safety zone monitoring. The safety zone must adhere to the minimum distance to wall value given in the Laser Sentinel Reference Manual.



It is possible to mount the Laser Sentinel by employing a Bracket System. The Bracket System is not included in the Laser Sentinel package, it is an optional accessory. In this case, refer to the Bracket Manual and the Instruction Manual in order to install the device.

CONNECTIONS

All power connections to the Laser Sentinel must strictly comply with standard regulations. The device requires a supply voltage of 24 Vdc. Power must be supplied in accordance with SELV/PELV (IEC 60204-1) for all the devices electrically connected to the safety laser scanner. Make sure that the safety laser scanner is provided with an appropriate electrical fuse protection and the earthing system method is the same for all the devices connected to the Laser Sentinel.

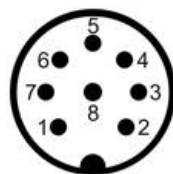
MACHINE INTERFACE CONNECTIONS

Laser Sentinel Stand Alone model

The Laser Sentinel Stand Alone model has one OSSD pair and includes three programmable signals. These signals allow the user to configure the device with different functions: the detection of a person or an object in the Warning Zone, the switching of the detection areas by employing external signals (Area Switch), the restart of the device caused by the OSSD Off-status (Restart) and restoring the device after a failure condition (Reset), the automatic deactivation of the safety status on the whole safety area (Muting) and the Single line pattern Muting Override used to force the safety function deactivation whenever it is necessary to restart the machine.



Make sure that the signals are aligned with the pin features and their specific function. In addition, they must be correctly connected to the external device.



Power I/O Connector (M12 MALE 8 POLES)

SIGNAL	COLOR	PIN OUT
POWER SUPPLY	BROWN	2
GND_ISO	BLUE	7
MULTI IN/OUT	GREEN	3
MULTI IN/OUT	YELLOW	4
MULTI IN/OUT	WHITE	1
OSSD 1/1	GRAY	5
OSSD 1/2	PINK	6
F_EARTH	RED	8

The **Multi In/Out** is a Pin that can be configured either as input or output.

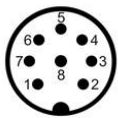
SIGNAL	FUNCTION	CONNECTION
MULTI – IN	RESTART / RESET	
	AREA SWITCH	
	OVERRIDE (Single line pattern)	
	MUTING 1 MUTING 2	
	MUTING ENABLE	
MULTI – OUT	WARNING	
	MUTING LAMP	
OSSD	OSSD 1/1 OSSD 1/2	

Laser Sentinel Master Slave model

There are two main safety laser scanner models: the Master (that can be used individually or to run other slave devices) and the Slave (that must be connected to a Master and has only a particular connection to be connected to its Ethernet network).

Master connection

The Master model includes a configurable set of input and outputs with a specific purpose depending on the selected topology and pin configuration.



**Power I/O Connector
(M12 MALE 8 POLES)**

SIGNAL	COLOR	PIN OUT
POWER SUPPLY	BROWN	2
GND_ISO	BLUE	7
MULTI IN	GREEN	3
MULTI IN	YELLOW	4
MULTI IN/OUT	WHITE	1
OSSD 1/1	GRAY	5
OSSD 1/2	PINK	6
F_EARTH	RED	8



**Main Connector
(M12, 12 POLES)**

SIGNAL	COLOR	PIN OUT
POWER SUPPLY	BROWN	1
POWER SUPPLY	GREEN	4
GND_ISO	BLUE	2
GND_ISO	YELLOW	6
MULTI IN	WHITE	3
MULTI IN/OUT	BLACK	7
MULTI IN/OUT	RED	9
MULTI IN/OUT	VIOLET	10
MULTI IN/OUT	GRAY/PINK	11
OSSD 1/1	GRAY	8
OSSD 1/2	PINK	5
F_EARTH	RED/BLUE	12



8-pole and 12-pole connectors cannot be used together, but just individually according to the application needs.

The **Multi In** and **Multi Out** are input and output signals respectively, configurable depending on the safety application needed.

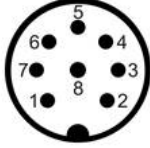
TYPE	SIGNALS	DESCRIPTION
MULTI_IN	RESTART	Restarts the device following OSSD Off-status
	RESET	Restores the device after a failure condition
	RESTART 1 /RESET	Restarts or restores the device
	AREA SWITCH 1	Switches the detection areas by employing external signals
	AREA SWITCH 2	
	AREA SWITCH 3	
	AREA SWITCH 4	
	AREA SWITCH 5	
	MUTING ENABLE 1	If it is at a high level, the Muting feature is enabled, and Muting will be performed
	MUTING 11	Automatically deactivates the safety status on the whole safety zone
MUTING 12		
MULTI_OUT	MUTING LAMP	MUTING LAMP Active Muting function signal. Connect LED lamp providing it to 24 Vdc
	WARNING 1	WARNING Outputs for the detections in the warning area
	WARNING 2	
	ALARM 1	CLEAN WINDOW
	ALARM 2	DEVICE ERROR
	ALARM 3	OVERRIDE ON
	NO FUNCTION	not used

The **Multi In/Out** are signals that can be configured both as inputs and outputs.

TYPE	SIGNALS	DESCRIPTION
MULTI_IN/OUT	MULTIN IN	MULTI IN/OUT inputs can be configured as a MULTI-IN input
	MULTI OUT	MULTI IN/OUT inputs can be configured as a MULTI-OUT output

Slave connection

Slave devices are equipped with rotatable side connectors for the input and output connection and will receive data and power supply from the previous devices which in turn will send it to the others. 8-pole connectors are used to connect Slave devices.

		
	INPUT PORT	OUTPUT PORT
1	VALIM	VALIM
7	VALIM	VALIM
6	I_TX+	O_TX+
5	I_RX+	O_RX+
4	I_TX-	O_TX-
8	I_RX-	O_RX-
2	GND_ISO	GND_ISO
3	GND_ISO	GND_ISO



Download the DLSentinel GUI at www.datalogic.com. Click on **Support > Search by product** and enter the Laser Sentinel family name, then select your product and click on the **Software & Utilities** link to download your Graphic User Interface.

1. On the PC that will be used for configuration, download the DLSentinel.zip file, unzip it and run the installation program by double-clicking the **SetupDISentinel.msi** file. The downloaded folder also contains Windows framework provided by Datalogic in case you need to update your operating system. Run the .msi setup file first, and only install the framework .exe file if requested.
2. When the installation is complete, the DLSentinel entry is created in the Start > All Programs menu under "Datalogic" along with a desktop icon. Double-click the desktop icon to run it.
3. For the configuration procedure follow the steps included in the DLSentinel User's Manual.











Configuration to the connected device requires the alignment between the IP Addresses of the device and the computer LAN. For further information refer to the DLSentinel User's Manual.


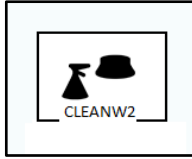





MINIMUM SYSTEM REQUIREMENTS




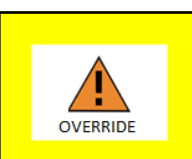



COMPONENT	RECOMMENDED	MINIMUM
Processor(s)	Pentium 4	Pentium 4
Clock frequency	>= 3 GHz	>= 2 GHz
RAM	2 GB	1 GB
Free hard drive space	70 MB	70 MB
Monitor resolution	1280x768	1024x768
Supporting Operating System	Windows XP Windows 7 Windows 8 Windows 10	







MONITORING BY DISPLAY


DISPLAYED ICON		NAME	DESCRIPTION
Configuration Valid	Configuration Pending Acceptance		
		ON State	The device is correctly functioning (OSSDs GO Condition). No presence detected in the Safety and Warning Area.
		Warning for Intrusion into Warning Zone	The device is correctly functioning. The device has detected a presence in the Warning Area.
		OFF State for Intrusion into Safety Zone	The device is correctly functioning (OSSDs STOP Condition). The device has detected a presence in the Safety Zone.
		OFF State for Reference Points	The device has detected that Reference Points have moved. The Display Sector in the direction of the moved reference point is lit in blue.

DIAGNOSTICS

Displayed Icon	Displayed Fault Code	Device Status	OSSD Status	Description/Action
	DLDNF	NORMAL	OFF	Downloading new firmware.
	DLDNC	NORMAL	OFF	Downloading new configuration.
	CLEANW2	NORMAL	ON	It is suggested to clean the window to avoid entering lockout condition.
	ITLOCK 1	NORMAL	OFF	Interlock. Waiting for the restart of OSSD.
	INTF6	NORMAL	ON	Non safety-related internal test failure. Reset the system by using the reset function or cycle power to device. If failure persists, contact Datalogic Technical Support.
	EXTTEMP	NORMAL	ON	The device is operating in an environment that exceeds the specified operating temperature range: restore correct ambient temperature conditions.
	BOOTF	NORMAL	OFF	Invalid boot. Re-boot the system until the normal condition is restored. If warning persists, contact Datalogic Technical Support.
	MUT TIMEOUT	NORMAL	ON	Muting has expired because it is maintained beyond the maximum timeout time.

Displayed Icon	Displayed Fault Code	Device Status	OSSD Status	Description/Action
 MUTING ERR	MUTING ERR	NORMAL	ON	Muting has not activated because the correct sequence was not followed.
 MUTING	MUTING	NORMAL	ON	The Muting function is active.
 OVERRIDE ERR	OVERRIDE ERR	NORMAL	ON	Override has not been activated because the correct sequence has not been followed or there are no override conditions.
 OVERRIDE	OVERRIDE	NORMAL	ON	The Override function is active.
 OVERTEMP	OVERTEMP	NORMAL	ON	The unit is operating above or below its allowed operating temperature range.
 OVR TIMEOUT	OVR TIMEOUT	NORMAL	ON	The Override timeout function has expired.
 HIGH REFL-BKG	HIGH REFL-BKG	NORMAL	ON	Reduce or remove the reflecting background.

Displayed Icon	Displayed Fault Code	Device Status	OSSD Status	Description/Action
	WAITING CONF	LOCKOUT	OFF	The device is waiting the first configuration (e.g. after a Factory Reset)
	CLEANW1	LOCKOUT	OFF	Window needs to be cleaned. Repeat this action until the normal condition is restored. Otherwise contact Datalogic Technical Support to replace the damaged part.
	INPUTCF1	LOCKOUT	OFF	Check input connection or sequence.
	INPUTCF2	LOCKOUT	OFF	Check input sequence.
	OSSDF1	LOCKOUT	OFF	Check OSSD connections or integrity of the external switching device. If failure persists, contact Datalogic Technical Support.
		LOCKOUT	OFF	
	OSSD1F3	LOCKOUT	OFF	A short circuit to GND has been detected: check OSSD connections or integrity of the external switching device. If failure persists, contact Datalogic Technical Support.

	INTF1	LOCKOUT	OFF	<p>Internal Failure. Reset the system by using the reset function or cycle power to device. If failure persists, contact Datalogic Technical Support.</p> <p>* INTF18: this fault also occurs when a device of the Master/Slave cluster is replaced or removed (Topology fault). In this case, connect to the GUI and upload a new configuration.</p>
	INTF2	LOCKOUT	OFF	
	INTF3	LOCKOUT	OFF	
	INTF4	LOCKOUT	OFF	
	INTF5	LOCKOUT	OFF	
	INTF7	LOCKOUT	OFF	
	INTF8	LOCKOUT	OFF	
	INTF9	LOCKOUT	OFF	
	INTF10	LOCKOUT	OFF	
	INTF11	LOCKOUT	OFF	
	INTF12	LOCKOUT	OFF	
	INTF13	LOCKOUT	OFF	
	INTF14	LOCKOUT	OFF	
	INTF15	LOCKOUT	OFF	
	INTF16	LOCKOUT	OFF	
	INTF17	LOCKOUT	OFF	
	INTF18	LOCKOUT	OFF	
	INTF20	LOCKOUT	OFF	

ORIGINAL INSTRUCTIONS

Patents. See www.patents.datalogic.com for patents list.

Datalogic S.r.l.

Via S. Vitalino 13 - 40012 Calderara di Reno - Italy

Tel: +39 051 3147011 - Fax: +39 051 3147205 - www.datalogic.com

Helpful links at www.datalogic.com: Contact Us, Terms and Conditions, Support.

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For Asia- Pacific Countries:

The validity, interpretation and construction of the Agreement shall be governed by and construed in accordance with Laws of the Republic of Singapore. Parties expressly disclaim the application of the United Nations Convention for International Sale of Goods.

Any dispute arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration administered by the Singapore International Arbitration Centre ("SIAC") in accordance with the Arbitration Rules of the Singapore International Arbitration Centre ("SIAC Rules") for the time being in force, which rules are deemed to be incorporated by reference in this clause. The seat of the arbitration shall be Singapore.

The number of arbitrators will be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties will appoint a third arbitrator who will act as chairman of the proceedings. Vacancies in the post of chairman will be filled by the president of the SIAC. Other vacancies will be filled by the respective nominating party. Proceedings will continue from the stage they were at when the vacancy occurred. If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator will be the sole arbitrator, provided that the arbitrator was validly and properly appointed. All proceedings will be conducted, including all documents presented in such proceedings, in the English language. The English language version of these terms and conditions prevails over any other language version.

11.4. Attorneys' Fees. In the event an action is brought to enforce the terms and conditions of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees, both at trial and on appeal.

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