

OCPxxxP0150P

High-Performance Distance Sensor



Operating instructions

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1. Use for Intended Purpose

This wenglor product must be used in accordance with the following functional principle:

High-performance distance sensors which use the principle of angle measurement determine the distance between the sensor and the object. These sensors have small working ranges (under 1 m) and recognize objects with high precision. Some sensors use a high-resolution CMOS line array and DSP signal processing. The color, shape and texture of the objects to be recognized does not affect the sensors' measurements. Even dark objects can be reliably detected against a bright background. They can be operated with very high speeds or very high resolutions. The measured value can be output as an analog value or via the interfaces. Furthermore, Teach-In, filter functions for adjusting a switching output, and an error output are available. The measuring range can be selected individually within the working range.

2. Safety Precautions

2.1. Safety Precautions

- This operating instruction is part of the product and must be kept during its entire service life
- · Read this operating instruction carefully before using the product
- Installation, start-up and maintenance of this product has only to be carried out by trained personal
- · Tampering with or modifying the product is not permissible
- Protect the product against contamination during start-up
- Not a safety component in accordance with the EU Machinery Directive.

2.2. Laser/LED Warnings



Laser class 1 (EN 60825-1)

Standards and safety instructions must be observed.

2.3. Approvals and IP Protection











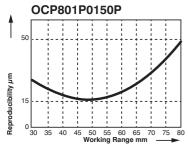
3. Device Features

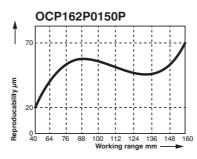
Order No.	OCP801P0150P	OCP162P0150P	OCP352P0150P	OCP662P0150P
Working Range	3080 mm	40160 mm	50350 mm	60660 mm
Measuring Range	80 mm	160 mm	350 mm	660 mm
Reproducibility	1550 μm	2070 μm	20150 μm	701000 μm
Linearity Deviation	50100 μm	50160 μm	100500 μm	1001000 μm
Temperature Drift	<5 μm/K	<10 µm/K	<20 μm/K	<50 μm/K
Output Rate		33	30/s	
Light Source		Lase	r (red)	
Wave Length		655	5 nm	
Service Life (T = 25 °C)		100	000 h	
Laser Class (EN 60825-1)			1	
max. Ambient Light		1000	00 Lux	
Beam Divergence		< 2	mrad	
Light Spot Diameter		3.6 ×	0.9 mm	
Port Type		100B/	ASE-TX	
PoE Class			1	
Temperature Range		-25	.50 °C	
Reverse-polarity Protection		Y	es	
Interface		PRO	FINET	
Protection Class			III	
Adjustment		Menu	(OLED)	
Housing material		M	etal	
Protection Class		IF	268	
Connection Type		M12×	1, 8-pin	
Control Panel No.		X2,	T12	
Webserver		Y	es	
PROFINET IO, CC-B			<u> </u>	

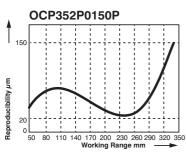
Reference material: kodak white 90 % remission

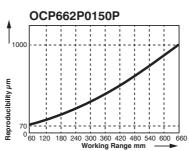
The warm-up phase lasts approx. 30 minutes. At the beginning of this time, the linearity deviation and reproducibility may vary by a factor of up to 10. During the warm-up phase the values improve in the form of an exponential function until the technical data is reached.

Typical Reproducibility Curves within the Working Range

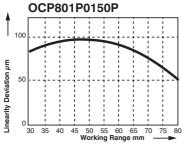


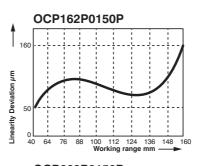


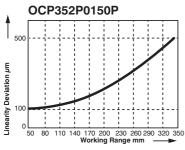


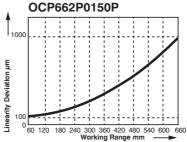


Typical Linearity Error Curves within the Working Range





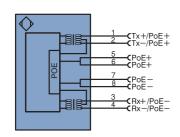






3.1. Connection Diagram



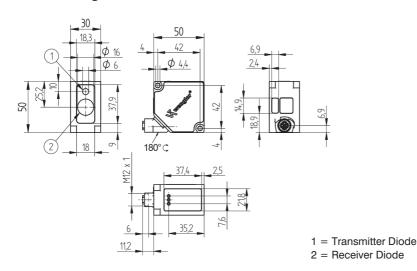


Legend			
+	Supply Voltage +		
-	Supply Voltage 0 V		
~	Supply Voltage (AC Voltage)		
Α	A Switching Output (NO)		
Ā	(NC)		
V	Contamination/Error Output	(NO)	
V	Contamination/Error Output	(NC)	
E	Input (analog or digital)		
Т	Teach Input		
Z	Time Delay (activation)		
S	Shielding		
RxD Interface Receive Path			
TxD	D Interface Send Path		
RDY	RDY Ready		
GND Ground			
CL	CL Clock		
E/A	Output/Input programmable		
②	IO-Link		
PoE	Power over Ethernet		
IN Safety Input			
OSSD Safety Output			
Signal Signal Output			
BI_D+/- Ethernet Gigabit bidirect. data line (A-D)			
ENors42	Encoder 0-pulse 0-0 (TTL)		

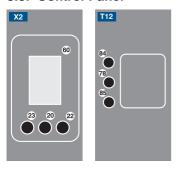
PT Platinum measuring resistor		
not connected		
Test Input		
Test Input inverted		
Trigger Input		
Ground for the Trigger Input		
Analog Output		
Ground for the Analog Output		
Block Discharge		
Valve Output		
Valve Control Output +		
Valve Control Output 0 V		
Synchronization		
Ground for the Synchronization		
Receiver-Line		
Emitter-Line		
Grounding		
Switching Distance Reduction		
Ethernet Receive Path		
Ethernet Send Path		
Interfaces-Bus A(+)/B(-)		
Emitted Light disengageable		
Magnet activation		
Input confirmation		
Contactor Monitoring		

CAL	Encoder A/Ā (TTL)	
ENBR\$422		
ENA	Encoder A	
ENB	Encoder B	
Amin	Digital output MIN	
Амах	Digital output MAX	
Аок	Digital output OK	
SY In	Synchronization In	
SY OUT	Synchronization OUT	
Огт	Brightness output	
М	Maintenance	
rsv	reserved	
Wire Co	olors according to IEC 60757	
BK	Black	
BN	Brown Red Orange	
RD		
OG		
	Orange	
YE	Yellow	
YE	Yellow	
YE GN	Yellow Green	
YE GN BU	Yellow Green Blue	
YE GN BU VT	Yellow Green Blue Violet	
YE GN BU VT GY WH	Yellow Green Blue Violet Grey	

3.2. Housing Dimensions



3.3. Control Panel



20 = Enter Button

22 = Up Button

23 = Down Button

60 = Display

78 = Module Status

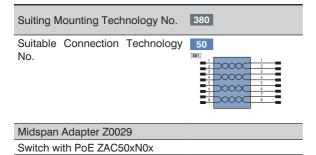
84 = Communication Status

85 = Link/Act LED

Designation	Condition	Function
	Off	Connection (AR) with controller established
CS (Communication Status)	Green	Protocol not initialized
	Red	No connection (AR) with controller established
	Red	Error (class FATAL)
MS (Modul Status)	Red flashing	Detection function, may be activated via Engineering Tool
1./4	Green	Links present
L/A	Green flashing	Communication

3.4. Complementary Products

wenglor offers Connection Technology for field wiring.



4. Mounting Instructions

When using the Sensor, follow the corresponding electrical and mechanical regulations, standards and safety rules. The Sensor must be protected against mechanical influence. The Sensor has optimum extraneous light qualities when the background is within the working range.



5. Initial Operation

5.1. Initial Operation

Each Ethernet device has a unique MAC address. With wenglor you can find the MAC address on the type plate of the device.

In the default settings, the device has the following IP-Address 192.168.100.1. You can access the website of the device via the IP-Address. You can change settings on the device on the website or using the OLED display in order to test applications.

Caution: In the case of operation on a control unit, settings that were changed on the website or using the OLED display will be overwritten by the control unit.

If you want to start up the device on a control unit, please perform the following steps:

- Connect the Sensor to a switch with PoE using an appropriate cable M12×1; 8-pin. In the case of a switch
 without PoE, please use the Midspan Adapter (Z0029) for the appropriate voltage supply. When the voltage
 supply is present, the display on the Sensor starts.
- Install the associated device-specific electronic description file (e.g. for PROFINET, the GSDML file) in the
 hardware manager. You can find the file you require for download at www.wenglor.com → Products →
 Product search (order number). Explanations regarding the electronic description file and its structure can
 be found in the detailed operating instructions in PDF format.
- Help on installing the file in the control and design of the network can be found in the help files of the relevant control. wenglor provides a description for the download at: www.wenglor.com → Products → Product search (order number).

5.2. Default Settings

		OCPxxxP0150P	
Diopley	Mode	Process	
Display	Intensity	Screensaver	
Offset Default Offset		0 mm	
Filter		1	
Resolution		High	
Exposure		DCM	
Output Rate		Normal	
Laser		ON	
	IP-Address	192.168.100.1	
	Subnet Mask	255.255.255.0	
Network	DHCP	DHCP OFF	
	Std Gateway	192.168.100.254	
	MAC Address	(See type plate on the product)	
Language		English	
Password	Activate	Off	
	Change	0	

6. Functional Overview OLED-Display

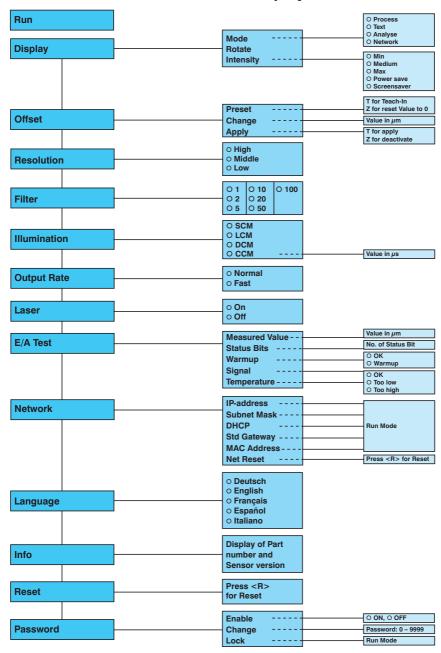






Fig. 1: Set language menu

Navigation by pressing the button:

∴ Navigation up.✓ : Navigation down.← : Enter Button.

The selection is confirmed by pressing the Enter button.

Meaning of the menu items:

◆ Back : one level higher in the menu.◆ Run : Switch to display mode.

Change to the configuration menu by pressing any button.

Note: If no setting is made in the configuration menu for a period of 30 s, the Sensor returns automatically to the display view.

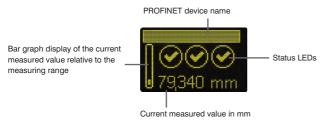
Pressing the button again returns the Sensor to the last menu view used. If a setting is made, it becomes active once you leave the configuration menu.

Important: To prevent any damage to the buttons, please do not use any pointed objects for setting.

The following explains the functions behind the individual menu items.

6.1. Run

The Sensor switches into display mode.



Symbol descriptions of status LEDs:

Symbol	Significance State 1		State 2	State 3
Symbol 1	Warm-up	⊘ ok	wait	_
Symbol 2 Signal Strength		⊘ ok	too low (dirty)	too high
Symbol 3	Temperature	⊘ ok	too high	too low

6.2. Display

Display	Adjust the display device	
Mode	Mode: Select display mode (see chapter 7.2.1)	
Rotate	Rotate:	Rotate display by 180°. By pressing the "←" button the display is rotated
Intensity		by 180°. The rotation is canceled by pressing this button again.
◆ Back	Intensity:	Set the display intensity (see chapter 7.2.2)
≪ Run		

6.2.1. Display Mode

The measured value in mm and the PROFINET device name always appear in the Sensor's display. [offline] will be displayed here unless the PROFINET device name has been changed. You can choose from the following additional displays in the menu item "display mode":

Mode	Adjust the display device	
O Process	Process:	Display of status LEDs for warm-up, signal strength and temperature.
O Text	Text:	Display of a free text that can be sent to the Sensor via the control.
O Analysis	Analysis:	Display of signal strength in percent and measuring rate in 1/s.
O Network	Network: Display of the PROFINET LEDs MS, CS and L/A. For the function	
		LEDs, see "4.3. Control Panel" on page 8.

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6.2.2. Display Intensity

Intensity	Set the display intensity		
O Min	Min: The intensity of the display is set to a minimum value.		
O Normal	Normal:	The intensity of the display is set to a medium value.	
O Max	Max:	The intensity of the display is set to a maximum value.	
O Power save	Power save:	The display switches off after one minute without a button being	
O Screensaver	pressed and automatically switches back on when a button is presse		
	Screensaver:	The colors of the display are inverted every minute.	

6.3. Offset

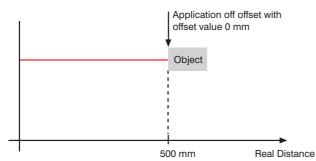
The offset function is used to change the current measured value to a defined value.

Offset	Change the measured value	
Default Change Apply	Default:	Learn offset value. The current measured value is adopted as the default offset value by pressing the "T". The offset value is set to 0 by pressing the "Z" button.
◆ Back◆ Run	Change:	Change the value of the offset. By pressing the "+" button or the "-" button, the value set in the menu item "Default" can be changed.
	Apply:	Accept the offset value set in the menu item "Default" as the measured value. By pressing the "T" button, the offset value set in the menu item "Default" is adopted as the displayed measured value. The offset function is reset by pressing the "Z" button, and the actual distance is displayed.

The currently set default offset value is displayed in μ m.

Example of the measured value for the offset function:

In the diagram the Sensor measures a distance of 500 mm. After application of the offset with offset value of 0 mm, the measured value at 500 mm becomes the measured value 0 mm.



6.4. Resolution

The number of pixels used by the CMOS line is defined by the resolution. The higher the resolution set, the smaller the detectable movements of an object and the slower the output rate of the Sensor becomes when there is a change in the measured values.

Resolution	Adjust the display device	
O High	High:	High resolution, low output rate
O Medium	Medium:	Medium resolution, medium output rate.
O Low	Low:	Low resolution, high output rate.
◆ Back		
≪ Run		

6.5. Filter

The filter (filter size) is the number of measured values over which the Sensor takes an average. The larger the filter selected, the slower the response time of the Sensor becomes when there is a change in the measured values. A larger filter improves the reproducibility of the Sensor.

Filter	Number of values for averaging
01	If 1 is selected, each measured value is output directly without averaging. When-
O 2	ever a value greater than 1 is selected, the Sensor takes an average over the
O 5	selected number of x measured values.
O 10	
O 20	
O 50	
O 100	
◆ Back	
≪ Run	

6.6. Exposure

The Sensor adjusts its exposure time or light pulse duration automatically up to a maximum value on the object to be detected. In the default DCM (Default Capture Mode), the Sensor has a fixed maximum possible exposure time. In the case of black or shiny objects, for example, it can be helpful to lengthen this time. It can be helpful to reduce the exposure time when the Sensor is aimed at the light source. In the case of problematic applications, it can be influenced by different modes or manually.

Exposure	Adjusting Exposure Times	
O SCM	SCM (Short Capture Mode):	The Sensor exposure time can be shortened on
O LCM		dark or glossy objects (e.g. black varnish) in order
O DCM		to reduce a fall in the measuring rate.
O CCM	LCM (Long Capture Mode):	The Sensor exposure time can be lengthened on
◆ Back		dark or glossy objects (e.g. black varnish) in order
↔ Run		to achieve a more accurate measurement.
	DCM (Default Capture Mode)	Default exposure time for standard applications.
	CCM (Custom Capture Mode)	:The Sensor exposure time can be adjusted manu-
		ally between 1002000 μ s.



6.7. Output Rate

The output rate indicates how often the measured value is refreshed per second at the output.

Output Rate	Adjust Output Rate	
O Normal	Normal:	The normal output rate is 100/s.
O Fast		This means that a new measured value is read out every 10 ms.
◆ Back	Fast :	The fast output rate is 330/s.
↔ Run		This means that a new measured value is read out every 3 ms.
		Note: If this mode is activated, the OLED display is switched off
		as soon as a PROFINET controller goes online. It's switch back on
		automatically when the controller goes offline again.

6.8. Laser

In the menu item "Laser", the emitted light can be switched on or off.

Laser	Switch transmitted light on or off	
O On	ON:	Switch transmitted light on
O Off	OFF:	Switch transmitted light off; the Sensor no longer supplies mea-
◆ Back		sured values
≪ Run		

6.9. I/O Test

This function manually changes the output of the Sensor. As a result, it possible to test whether the further process is working as desired. The test is automatically terminated once you leave the test menu.

I/O Test	Test of the Sensor outputs	
Measured value	Measured value:	Default of a measured value in μ m
Statusbits	Statusbits:	The number of the status bit to be set can be selected by
Warm-up		pressing the "+" or "-" button. (see list of Statusbits)
Signal Strength	Warm-up:	Default of the warm-up on "ok" or "warm-up"
Temperature	Signal strength:	Default of the signal strength on "ok", "too low" or "too high"
◆ Back	Temperature:	Default of the temperature on "ok", "too low" or "too high"
≪ Run		

If the Sensor returns to the display view after 30 seconds without pressing the button while the test is still active, this is indicated by a \bigwedge in the display view.

List of status bits:

Number	Function	Description of when the bit is set	Measured value read- out
1	General error	One of the following bits is set.	_
2	Distance to object too small	The current measured value is below the working range.	Measuring range lower limit
3	Distance to object too large	The current measured value is above the working range.	Measuring range upper limit
4	No signal	The sensor does not detect an object within its working range.	Measuring range upper limit
5	Signal too weak	Too little light is reflected back to the sensor from the object (e.g. very dark surface). The quality of the measured value is reduced as a result.	Current measured value
6	Signal too strong	Too much light is reflected back to the sensor from the object (e.g. reflector) The quality of the measured value is reduced as a result.	Current measured value
7	Warm-up procedure	The sensor is currently in the warm-up phase and the quality of the measured value does not yet comply with the specified technical data. See page 5 below.	Current measured value
8	Temperature too high	The sensor is at the upper limit of its temperature range. If temperature continues to rise, the sensor may be destroyed.	Current measured value
9	Temperature too low	The sensor is at the lower limit of its temperature range. If temperature continues to drop, the sensor may be destroyed.	Current measured value

6.10. Network

Network	Settings of the Network Parameters	
IP-Address	IP-Address:	Display of the set IP-Address
Subnet Mask	Subnet Mask:	Display of the set Subnet Mask
DHCP	DHCP:	Display DHCP ON or DHCP OFF
Std Gateway	Std Gateway:	Display of the set standard gateway
MAC Address	MAC Address:	Display of the default MAC Address
Net Reset	Net Reset:	Reset network settings to the default settings
◆ Back		
≪ Run		



6.11. Language

The menu language can be changed in the menu item "Language". The user is automatically prompted for his desired language at initial operation and after each reset.

Language	Set menu language
O Deutsch	The menu appears in the selected language immediately after selection.
O English	
O Francais	
O Espanol	
O Italiano	
◆ Back	
∢ Run	

6.12. Info

In the menu item "Info" the following information about the Sensor is displayed:

Info	
Order number Software version Serial number	

6.13. Reset

All Sensor settings, with the exception of the network settings, can be reset to the default settings in the menu item "Reset. The settings of the default settings can be found in Chapter "6.2. Default Settings" on page 9.

Reset	Reset to the default settings
Press <r> for Reset</r>	The Sensor settings that have been made can be reset to the default settings by
	pressing the "R" button.

6.14. Password

Password protection prevents against changing the set data unintentionally.

Password	Set password functionality			
Activate Change	Enable:	Turn password protection on or off. If password protection is activated, the operation of the Sensor is disabled after supply power		
Block ◆ Back		has been interrupted and is only enabled after successfully entering password.		
≪ Run	Change: Lock:	Change password. Locking Sensor causes an immediate disabling of operation if activate Password is set to "on".		

If the password functionality is activated, the password must be entered before each operation of the Sensor. After correctly entering the password by means of the "+" and "-" button, the menu is activated and the Sensor is operational.

- The password functionality is deactivated in the default settings.
- The value range of the password number ranges from 0000...9999

It is necessary to note the newly defined code before changing the password. A forgotten password can only be overwritten by a general password. The general password can be requested by sending an e-mail to support@wenglor.com.



7. Information on PROFINET

You can find the GSDML file for download at www.wenglor.com \rightarrow Product World \rightarrow Product search (order number) \rightarrow Download.

7.1. Overview of Device Access Point (DAP)

DAP

Modul-ID: 0 Submodul: 0

Parameter:

Name	Data Type	Byte Offset	Bit Offset	Bit Length	Default Value	Value Range	Change- able	Index	Length	Description
Webserver Access	BitArea	0	0	1	0: enabled	01	Yes	300	1 Byte	0: enabled 1: blocked
Button lock	BitArea	0	0	1	0: enabled	01	Yes	301	1 Byte	0: enabled 1: blocked
Rotate display	BitArea	0	0	1	0: not rotated	01	Yes	302	1 Byte	0: not rotated 1: rotated
Display Intensity	BitArea	0	0	3	4: Screen- saver	04	Yes	303	1 Byte	0: Min 1: Normal 2: Max 3: Power saver mode 4: Screensaver
Display mode	BitArea	0	0	3	0: Process	03	Yes	304	1 Byte	0: Process 1: Analysis 2: Text 3: Network
Language	BitArea	0	0	3	1: English	04	Yes	305	1 Byte	0: Deutsch 1: English 2: Français 3: Español 4: Italiano
Offset Value	BitArea	0			0	-9999 9999	Yes	308	4 Byte	

7.2. Overview of modules used in the DAP OCPxxxP0150P

Name	Cyclical Input	Parameter	Parameter Slot (pluggable)
Distance Value	Measured value, Status	Filter value, Laser ON OFF	1 (fix)
Status	Bit field	_	2 (fix)
Filter	Filter value	_	3 (pluggable)
Laser	Laser ON OFF	_	4 (pluggable)
Display text	Display text	-	5 (pluggable)
Offset	Offset Set	_	6 (pluggable)
Resolution	Resolution Mode	_	7 (pluggable)
Exposure	Exposure Mode	-	8 (pluggable)
Exposure Time	Max Exposure Time	-	9 (pluggable)

The detailed structure of the modules is described in the following.

Module Distance Value

Module ID: 1 Submodule: 1

Slot: 1

Format Cyclical Data:

4 Byte Statusbits (see Module status)

Input	Output	Value Range	Data Type	Unit	Description
Measured value	_	-99999999	Integer32	10 μm	Distance Value
Statusbits	_	Bit	Unsigned32	_	(see Module status)

Parameter:

Name	Value Range	Data Type	Index	Presetting	Changeable
Filter	06	Unsigned8	257	0	Yes
Resolution	02	Unsigned8	258	0	Yes
Exposure Mode	03	Unsigned8	259	2	Yes
Exposure Time	1002000	Unsigned16	260	1000	Yes
Laser	01	Bit	264	0	Yes

Module Status

Module ID: 2 Submodule: 1

Slot: 2

Format Cyclical Data:

Input	Output	Value Range	Data Type	Unit	Description
Statusbits	-	Bit	Unsigned32	_	Bit1: General Bit2: Distance to Object is too small Bit3: Distance to Object is too large
					Bit4: No signal Bit5: Contamination Bit6: Signal too high Bit7: Warm-up procedure Bit8: Overtemperature Bit9: Undertemperature

Parameter:

Name	Value Range	Data Type	Index
_	_	_	_



Module Filter

Module ID: 3 Submodule: 1

Slot: 3

Format Cyclical Data:

Input	Output	Value Range	Data Type	Unit	Description
Filter Value	Filter Value	09	Unsigned8	_	0: filter size 1 1: filter size 2 2: filter size 5 3: filter size 10 4: filter size 20 5: filter size 50 6: filter size 100

Parameter:

Name	Value Range	Data Type	Index
_	_	_	_

Module Laser ON OFF

Module ID: 4 Submodule: 1

Slot: 4

Format Cyclical Data:

Input	Output	Value Range	Data Type	Unit	Description
Laser ON-OFF	Laser ON-OFF	01	Unsigned8	_	0: Laser ON 1: Laser OFF

Parameter:

Name	Value Range	Data Type	Index
_	_	_	_

Module Display Text

Module ID: 5 Submodule: 1

Slot: 5

Format Cyclical Data:

Input	Output	Value Range	Data Type	Unit	Description
Display	Display	Text 19	Visible	_	Displayable Display Text
Text	Text	Character	String		

Parameter:

Name	Value Range	Data Type	Index
_	_	_	_

Module Offset

Module ID: 6 Submodule: 1

Slot: 6

Format Cyclical Data:

Output

Value Range	Data Type	Unit	Description
15	Unsigned8	-	0x00: Start command 0x01: Learn offset value 0x03: Reset offset value 0x04: Apply offset 0x05: Reset offset

Input

Value Range	Data Type	Unit	Description
0x000x10	Unsigned8	_	0x00: Ready for command
			0x10: Command executed

Parameter:

Name	Value Range	Data Type	Index
_	_	_	_

Examples:

Learn offset value: Input Output

^{0x00} **u** _{0x00} **7** ^{0x04} **u** _{0x10} Apply offset value: Input

Output



Module Resolution

Module ID: 7 Submodule: 1

Slot: 7

Format Cyclical Data:

Input

Input	Output	Value Range	Data Type	Unit	Description
Resolution	Resolution	02	Unsigned8		Resolution high Resolution medium Resolution low

Parameter:

Name	Value Range	Data Type	Index
_	_	_	_

Module Exposure Mode

Module ID: 8 Submodule: 1

Slot: 8

Format Cyclical Data:

Input

Input	Output	Value Range	Data Type	Unit	Description
Exposure Mode	Exposure Mode	03	Unsigned8	_	0: Mode SCM 1: Mode LCM 2: Mode DCM 3: Mode CCM

Parameter:

Name	Value Range	Data Type	Index
_	_	_	_

Module Exposure Time

Module ID: 9 Submodule: 1

Slot: 9

Format Cyclical Data:

Input

Input	Output	Value Range	Data Type	Unit	Description
Exposure Time	Exposure Time	1002000	Unsigned16	μs	Max Exposure Time

Parameter:

Name	Value Range	Data Type	Index
_	_	_	-

8. Network Settings

To operate the device in an Ethernet LAN, the device and the remote station, for example a computer, must be located in the same network. The IP-Address of the device is set to the IP-Address 192.168.100.1 and to the subnet mask 255.255.255.0 and standard gateway 192.168.100.254. In the instructions the default values are always assumed.

WARNING: It must be ensured that supply power is not interrupted while making changes to network settings. Furthermore, supply power must maintained for at least an additional 5 seconds after the network settings have been saved to memory.

9. Web-based configuration

The device is equipped with a web-based adjustment interface that works independent of the operating system. You can configure the device conveniently using a standard web browser (e.g. Internet Explorer or Firefox).

9.1. Invoking the Management Interface

Start the web browser. Enter the IP-Address of the device in the address line of your browser, and press the Enter button. The IP-Address is preset to 192.168.100.1.

Example: http://192.168.100.1



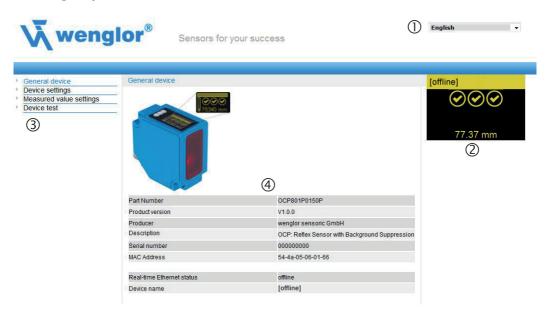


The overview page "Device general" is not password protected. If other pages are accessed, a password request appears. The following user data is preset in the default settings:

User name: admin Password: admin

The password can be changed on the "Device settings" page.

9.2. Page layout



The website is divided into the following 4 areas:

- 1. Language selection: The website can be changed from English (default setting) to German, French, Spanish or Italian via the language selection.
- Display: On each page, the current display is represented exactly like on the device itself.
- **3. Category selection:** The web-based settings are divided into four categories:
 - Device general: Overview page with general information about the device
 - · Device settings: Network and display settings of the device
 - . Measured value settings: Settings for influencing the measured value of the device
 - Device Test: Manual change of the Sensor output in order to test the process
- **4. Page content:** Depending on which category is selected, the relevant page content is displayed.

9.3. Device general



After establishing the connection, the overview page "Device general" is displayed.

Device Name: A unique device name can be freely assigned to each device via the PROFINET control. The device name is also displayed in the first line of the display. If no name is assigned, [offline] is displayed here.



English

9.4. Device Settings



Sensors for your success



Network Settings

By clicking on "Send" the settings are saved. After interruption of the power supply, the network settings are applied.

Network Reset

In a network reset, the network settings are reset to the factory settings. See chapter "6.2. Default Settings" on page 9. The settings are applied after interruption of the power supply. The Sensor settings remain unchanged.

Display Settings

For functional description of display settings see chapter "7.2. Display" on page 12.

Password

The password for the website is changed here. An additional window opens in which the new password can be entered.



9.5. Measured Value Settings



Offset

Default Offset: Set default offset. By clicking on "Teach" the current measured value is adopted as the default value. By clicking on "Reset" the offset value is set to 0. By entering a value in the field and clicking on "Send" a freely selected value can be set as the offset value.

Apply Offset: Accept the offset value set in the default value as the measured value. By clicking on "Apply" the offset default value is adopted as the displayed measured value. By clicking on "Reset" the offset function is reset and the actual distance is displayed.

For functional description of offset see chapter "7.3. Offset" on page 13.

Resolution

For functional description of resolution see chapter "7.4. Resolution" on page 14.

Eiltor

For functional description of filter see chapter "7.5. Filter" on page 14.

Exposure

For functional description of exposure see chapter "7.6. Exposure" on page 14.

Emitted Light

For functional description of transmitted light see chapter "7.8. Laser" on page 15.

Sensor Settings Reset

In a reset, the Sensor settings are reset to the factory setting. The network settings remain unchanged. For functional description of Sensor settings reset see chapter "7.13. Reset" on page 17.



9.6. Device Test



For functional description of device test see chapter "7.9. I/O Test" on page 15.

The test is activated as soon as at least one parameter is changed.

The length of the test is limited to 10 minutes. Afterwards, the test is terminated automatically. The remaining time of the test is displayed under the button "Switch off" and below the display window. The test can also be terminated prematurely by clicking on "Switch off".

10. Maintenance Instructions

- This wenglor Sensor is maintenance-free.
- It is recommended to clean the lens and the display regularly and to check the socket connections.
- Do not use any solvents or cleaning agents to clean the Sensor, which could damage the device.

11. Proper Disposal

wenglor sensoric gmbh does not take back unusable or irreparable products. When disposing of the products, the relevant national regulations for waste disposal apply.

12. EU Declaration of Conformity

The EU declaration of conformity can be found on our website at www.wenglor.com in download area.