

OCPxxxP0150P

High-Performance Distance Sensor



PROFI[®]
NET

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.

3. EC Declaration of Conformity

The products are developed, constructed and manufactured according to the directive 2004/108/EC. The following international standards and specifications apply:

- EN 55022:2006** Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement
- EN 60825-1:2007** Safety of laser products
- EN 61000-6-2:2005** Electromagnetic compatibility (EMC), Part 6-2: Generic standards – Immunity for industrial environments

Additional valid standards for the application should be taken into account.



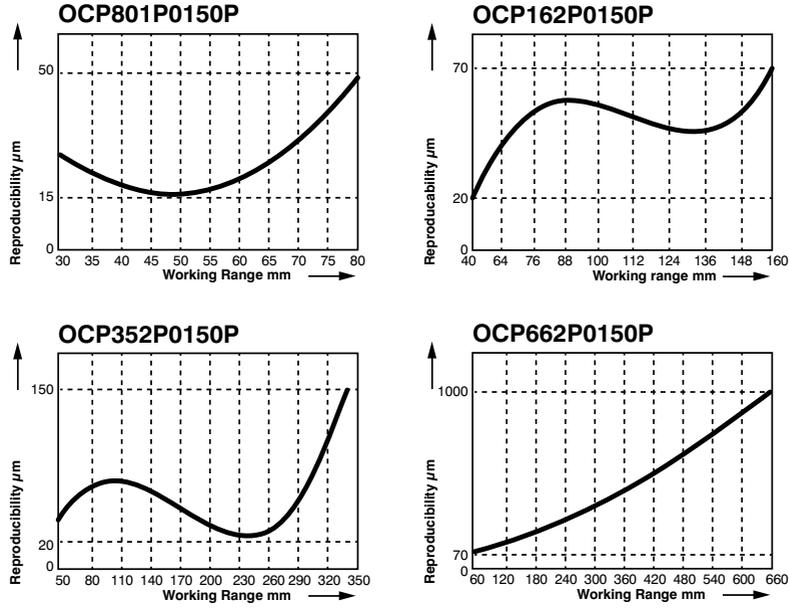
4. Device Features

Order No.	OCP801P0150P	OCP162P0150P	OCP352P0150P	OCP662P0150P
Working Range	30...80 mm	40...160 mm	50...350 mm	60...660 mm
Measuring Range	80 mm	160 mm	350 mm	660 mm
Reproducibility	15...50 µm	20...70 µm	20...150 µm	70...1000 µm
Linearity Deviation	50...100 µm	50...160 µm	100...500 µm	100...1000 µm
Temperature Drift	<5 µm/K	<10 µm/K	<20 µm/K	<50 µm/K
Output Rate	330/s			
Light Source	Laser (red)			
Wave Length	655 nm			
Service Life (T = 25 °C)	100000 h			
Laser Class (EN 60825-1)	1			
max. Ambient Light	10000 Lux			
Beam Divergence	< 2 mrad			
Light Spot Diameter	3.6 × 0.9 mm			
Port Type	100BASE-TX			
PoE Class	1			
Temperature Range	-25...50 °C			
Reverse-polarity Protection	Yes			
Interface	PROFINET			
Protection Class	III			
Adjustment	Menu (OLED)			
Housing material	Metal			
Protection Class	IP68			
Connection Type	M12×1, 8-pin			
Control Panel No.	X2, T12			
Webserver	Yes			
PROFINET IO, CC-B	✓			

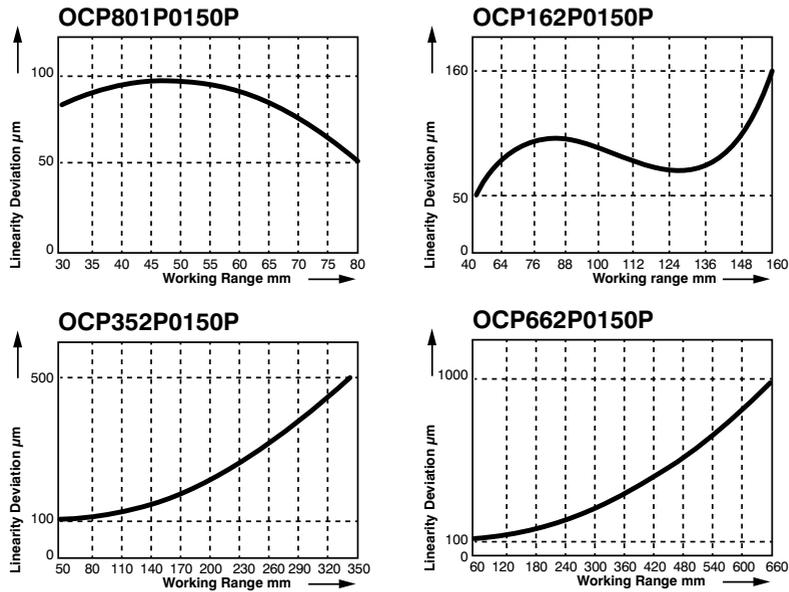
Reference material: kodak white 90 % remission

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.

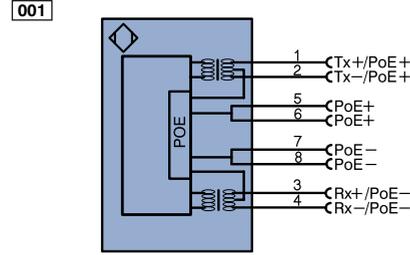
Typical Reproducibility Curves within the Working Range



Typical Linearity Error Curves within the Working Range



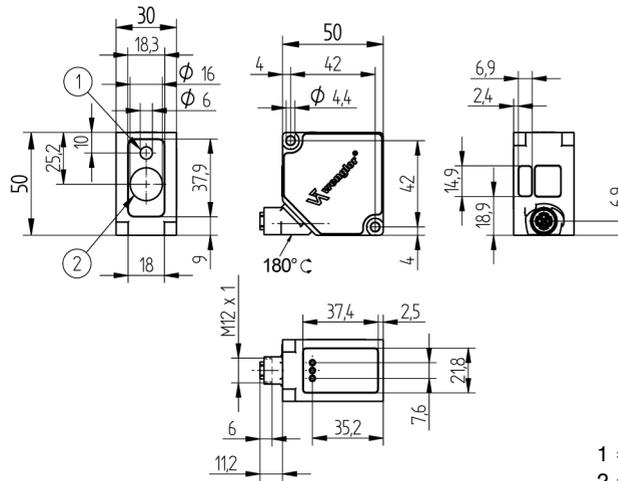
4.1. Connection Diagram



Legend

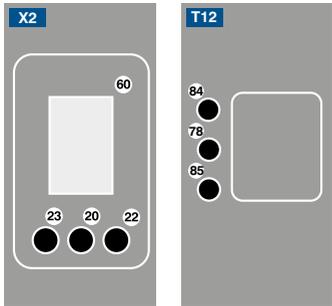
+	Supply Voltage +	nc	not connected	ENa	Encoder A
-	Supply Voltage 0 V	U	Test Input	ENb	Encoder B
~	Supply Voltage (AC Voltage)	U	Test Input inverted	AMIN	Digital output MIN
A	Switching Output (NO)	W	Trigger Input	AMAX	Digital output MAX
A	Switching Output (NC)	O	Analog Output	ADOK	Digital output OK
V	Contamination/Error Output (NO)	O-	Ground for the Analog Output	SY In	Synchronization In
V	Contamination/Error Output (NC)	BZ	Block Discharge	SY OUT	Synchronization OUT
E	Input (analog or digital)	AWV	Valve Output	OLr	Brightness output
T	Teach Input	a	Valve Control Output +	M	Maintenance
Z	Time Delay (activation)	b	Valve Control Output 0 V	Wire Colors according to DIN IEC 757	
S	Shielding	SY	Synchronization	BK	Black
RxD	Interface Receive Path	E+	Receiver-Line	BN	Brown
TxD	Interface Send Path	S+	Emitter-Line	RD	Red
RDY	Ready	±	Grounding	OG	Orange
GND	Ground	SnR	Switching Distance Reduction	YE	Yellow
CL	Clock	Rx+/-	Ethernet Receive Path	GN	Green
E/A	Output/Input programmable	Tx+/-	Ethernet Send Path	BU	Blue
IO-Link	IO-Link	Ba	Interfaces-Bus A(+)/B(-)	VT	Violet
PoE	Power over Ethernet	La	Emitted Light disengageable	GY	Grey

4.2. Housing Dimensions



1 = Transmitter Diode
2 = Receiver Diode

4.3. 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
CS (Communication Status)	Off	Connection (AR) with controller established
	Green	Protocol not initialized
	Red	No connection (AR) with controller established
MS (Modul Status)	Red	Error (class FATAL)
	Red flashing	Detection function, may be activated via Engineering Tool
L/A	Green	Links present
	Green flashing	Communication

4.4. Complementary Products

wenglor offers Connection Technology for field wiring.

Suiting Mounting Technology No. **380**

Suitable Connection Technology No. **50**

Midspan Adapter Z0029
Switch with PoE ZAC50xN0x

5. 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.

6. Initial Operation

6.1. 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-pole. 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).

6.2. Default Settings

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

7. Functional Overview OLED-Display

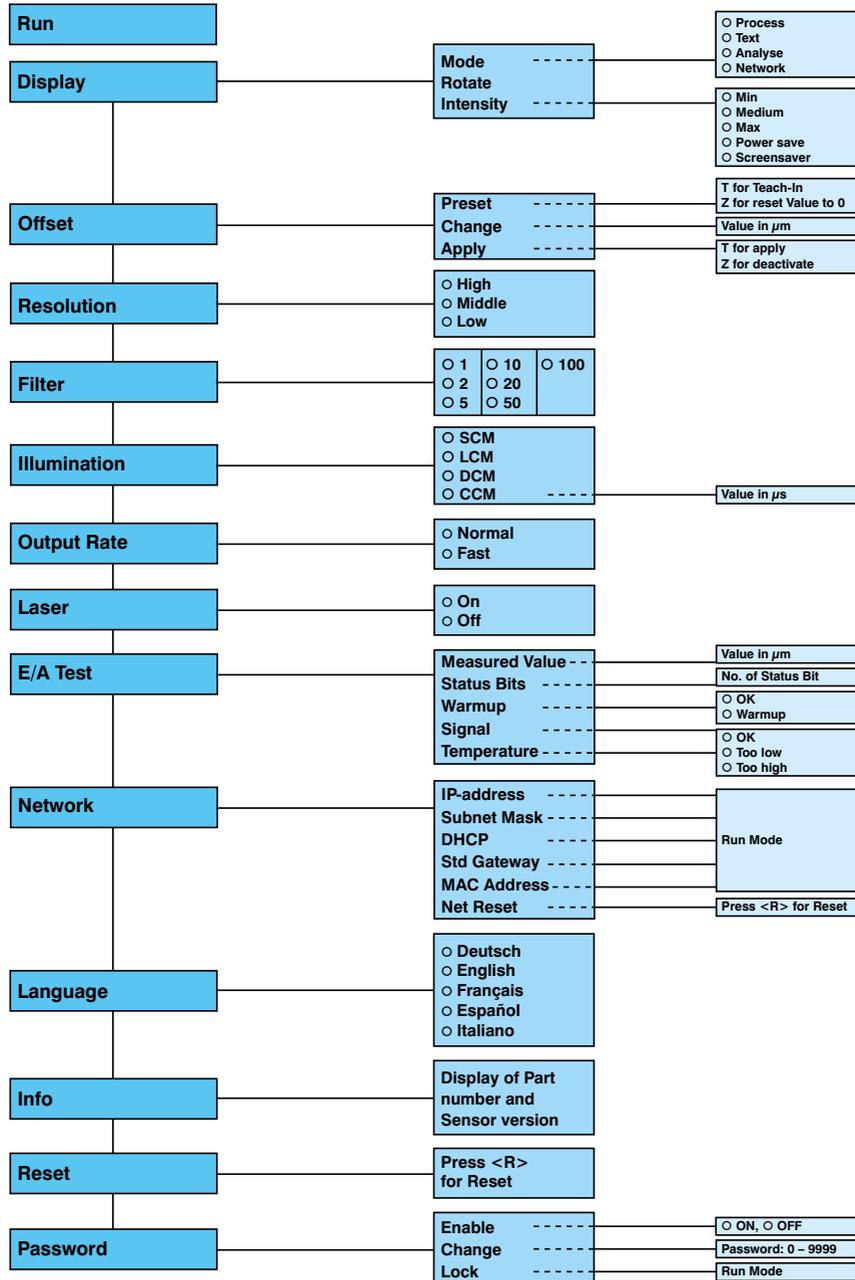


Fig. 1: Set language menu

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.

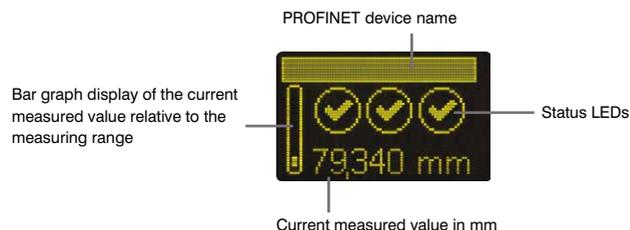
Pressing the button again returns the Sensor to the last menu view used. If a setting is made, it becomes active once you leave the configuration menu.

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.

7.1. 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

7.2. 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 by 180°. The rotation is canceled by pressing this button again.
Intensity	Intensity: Set the display intensity (see chapter 7.2.2)
◀ Back	
⏪ Run	

7.2.1. 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
○ Process	Process: Display of status LEDs for warm-up, signal strength and temperature.
○ Text	Text: Display of a free text that can be sent to the Sensor via the control.
○ Analysis	Analysis: Display of signal strength in percent and measuring rate in 1/s.
○ Network	Network: Display of the PROFINET LEDs MS, CS and L/A. For the function of these LEDs, see “4.3. Control Panel” on page 8.

7.2.2. Display Intensity

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

7.3. Offset

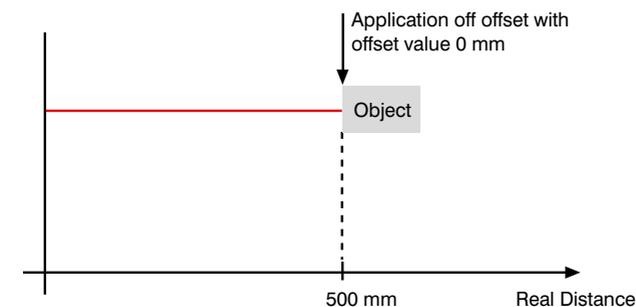
The offset function is used to change the current measured value to a defined value.

Offset	Change the measured value
Default	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.
Change	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	
◀ Back	
⏪ Run	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 μm.

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.



7.4. 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
<input type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Low ◀ Back ⬅ Run	High: High resolution, low output rate Medium: Medium resolution, medium output rate. Low: Low resolution, high output rate.

7.5. 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
<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 5 <input type="radio"/> 10 <input type="radio"/> 20 <input type="radio"/> 50 <input type="radio"/> 100 ◀ Back ⬅ Run	If 1 is selected, each measured value is output directly without averaging. Whenever a value greater than 1 is selected, the Sensor takes an average over the selected number of x measured values.

7.6. 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
<input type="radio"/> SCM <input type="radio"/> LCM <input type="radio"/> DCM <input type="radio"/> CCM ◀ Back ⬅ Run	SCM (Short Capture Mode): The Sensor exposure time can be shortened on dark or glossy objects (e.g. black varnish) in order to reduce a fall in the measuring rate. LCM (Long Capture Mode): The Sensor exposure time can be lengthened on dark or glossy objects (e.g. black varnish) in order 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 manually between 100...2000 μ s.

7.7. Output Rate

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

Output Rate	Adjust Output Rate
<input type="radio"/> Normal <input type="radio"/> Fast ◀ Back ⬅ Run	Normal: The normal output rate is 100/s. This means that a new measured value is read out every 10 ms. Fast : The fast output rate is 330/s. 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.

7.8. Laser

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

Laser	Switch transmitted light on or off
<input type="radio"/> On <input type="radio"/> Off ◀ Back ⬅ Run	ON: Switch transmitted light on OFF: Switch transmitted light off; the Sensor no longer supplies measured values

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

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 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

7.10. 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	

7.11. 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
<ul style="list-style-type: none"> ○ Deutsch ○ English ○ Francais ○ Espanol ○ Italiano ◀ Back ◀◀ Run 	The menu appears in the selected language immediately after selection.

7.12. Info

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

Info
<ul style="list-style-type: none"> Order number Software version Serial number

7.13. 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	The Sensor settings that have been made can be reset to the default settings by pressing the "R" button.

7.14. Password

Password protection prevents against changing the set data unintentionally.

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

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.

8. Information on PROFINET

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

8.1. 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	Changeable	Index	Length	Description
Webserver Access	BitArea	0	0	1	0: enabled	0...1	Yes	300	1 Byte	0: enabled 1: blocked
Button lock	BitArea	0	0	1	0: enabled	0...1	Yes	301	1 Byte	0: enabled 1: blocked
Rotate display	BitArea	0	0	1	0: not rotated	0...1	Yes	302	1 Byte	0: not rotated 1: rotated
Display Intensity	BitArea	0	0	3	4: Screen-saver	0...4	Yes	303	1 Byte	0: Min 1: Normal 2: Max 3: Power saver mode 4: Screensaver
Display mode	BitArea	0	0	3	0: Process	0...3	Yes	304	1 Byte	0: Process 1: Analysis 2: Text 3: Network
Language	BitArea	0	0	3	1: English	0...4	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	

8.2. 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	–	–9999...9999	Integer32	10 µm	Distance Value
Statusbits	–	Bit	Unsigned32	–	(see Module status)

Parameter:

Name	Value Range	Data Type	Index	Presetting	Changeable
Filter	0...6	Unsigned8	257	0	Yes
Resolution	0...2	Unsigned8	258	0	Yes
Exposure Mode	0...3	Unsigned8	259	2	Yes
Exposure Time	100...2000	Unsigned16	260	1000	Yes
Laser	0...1	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	0...9	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	0...1	Unsigned8	–	0: Laser ON 1: Laser OFF

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	100...2000	Unsigned16	µs	Max Exposure Time

Parameter:

Name	Value Range	Data Type	Index
-	-	-	-

9. 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 minutes after the network settings have been saved to memory.

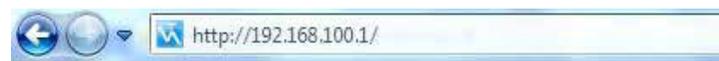
10. Web-based configuration

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).

10.1. 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.

10.2. Page layout

The screenshot shows the Wenglor web interface. At the top left is the Wenglor logo and tagline 'Sensors for your success'. A language dropdown menu is set to 'English'. A navigation menu on the left lists: General device, Device settings, Measured value settings, and Device test. The main content area is titled 'General device' and features a 3D model of a blue sensor device. Below the model is a table with the following data:

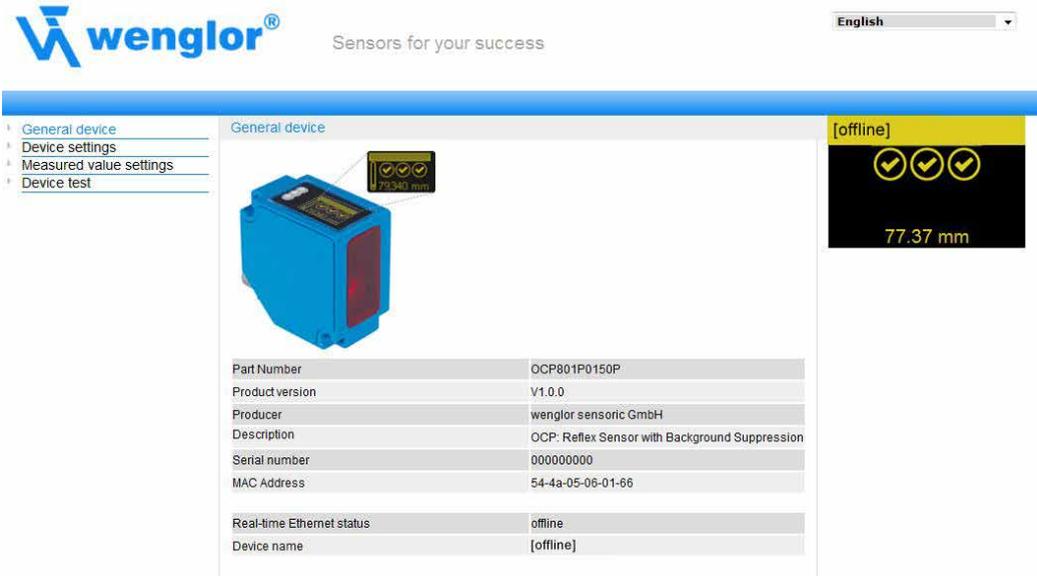
Part Number	OCP801P0150P
Product version	V1.0.0
Producer	wenglor sensoric GmbH
Description	OCP: Reflex Sensor with Background Suppression
Serial number	00000000
MAC Address	54-4a-05-06-01-66
Real-time Ethernet status	offline
Device name	[offline]

On the right side, there is a status panel showing three green checkmarks, the measurement value '77.37 mm', and the status '[offline]'. A language selection dropdown is also visible in the top right corner.

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.
- 2. 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.

10.3. Device general



English

wenglor® Sensors for your success

General device

General device [offline]

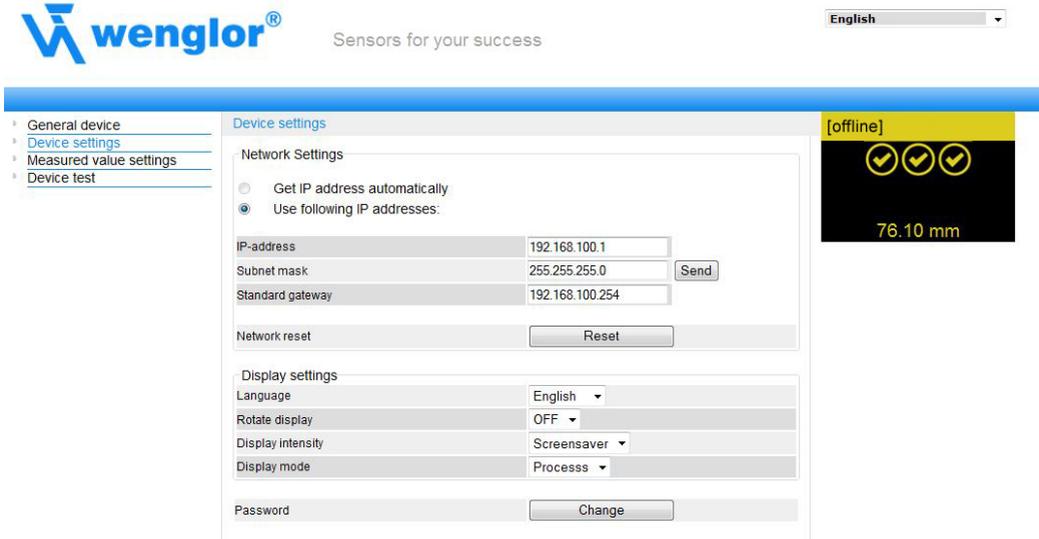
77.37 mm

Part Number	OCP801P0150P
Product version	V1.0.0
Producer	wenglor sensoric GmbH
Description	OCP: Reflex Sensor with Background Suppression
Serial number	000000000
MAC Address	54-4a-05-06-01-66
Real-time Ethernet status	offline
Device name	[offline]

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.

10.4. Device Settings



English

wenglor® Sensors for your success

Device settings

Device settings [offline]

76.10 mm

General device

Device settings

Measured value settings

Device test

Network Settings

Get IP address automatically

Use following IP addresses:

IP-address 192.168.100.1

Subnet mask 255.255.255.0

Standard gateway 192.168.100.254

Send

Network reset

Reset

Display settings

Language English

Rotate display OFF

Display intensity Screensaver

Display mode Process

Password

Change

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.

10.5. 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.

Filter

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.

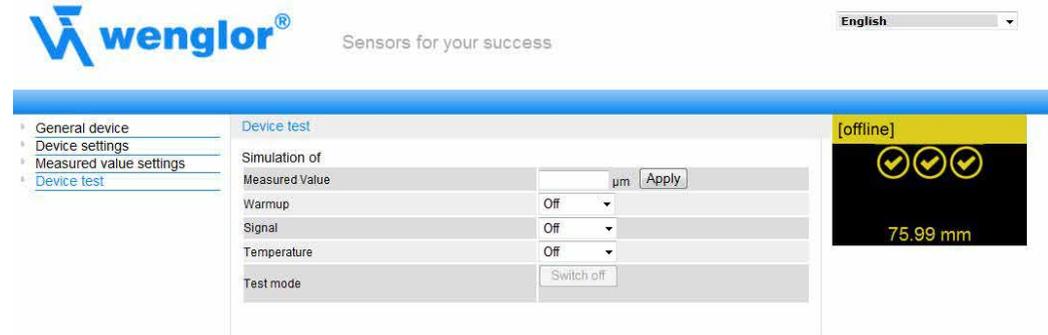
Emitted Light

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.

10.6. 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”.

11. 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.

12. 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.