QUICK START GUIDE

ODT-MAC335-HD-RD
STATIONARY READER

CE

PEPPERL+FUCHS

1 Introduction

1.1 Purpose of this quick start guide

This quick start guide contains basic instructions for operating the device. However, the manual takes priority over the quick start guide.

1.2 Laser class 1

Laser class 1 product

This reader is certified according to laser protection class 1.

Warning!
Class 1 laser radiation

The accessible laser beam is harmless under reasonably foreseeable conditions.

“Reasonably foreseeable conditions” are attained during correct operation.

With class 1 laser equipment, for example, glare, impairment of color vision and faults cannot be excluded in the upper performance range.

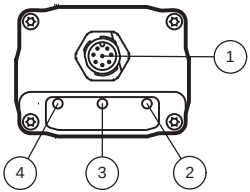
1.3 Intended use

The ODT-MAC335 stationary reader is used for decoding 1D and 2D codes.

Always operate the device as described in these instructions to ensure that the device and connected systems function correctly. The protection of operating personnel and plant is only guaranteed if the device is operated in accordance with its intended use.

2 Product description

2.1 Displays and controls



1	Connector M12 x 1	
2	LED GOOD	green
3	LED TRIG	yellow
4	LED PWR	green

Figure 2.1: Display elements MAC335

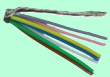
2.2 Accessories

Various accessories are available.

2.2.1 Power supply

Use the following connection cable to connect the power supply, inputs and outputs to the sensor.

M12 connection cables

	Material	Length	Cable end, field attachable 
8-pin M12 socket, straight 	PUR	2 m	V19-G-2M-PUR-ABG
		5 m	V19-G-5M-PUR-ABG
		10 m	V19-G-10M-PUR-ABG

Field-attachable M12 connectors

Model number	Description	mm^2	Cable dia.
V19-G-ABG-PG9	8-pin M12 socket, straight	max. 0.75	5 to 8 mm

Other lengths on request.

3 Installation

3.1 Mounting

Note!

Preventing reflection and glare

Reflection and glare from reflective surfaces can impair the captured image and therefore lead to incorrect readings. To prevent reflection and glare, install the stationary reading device at a slight angle.

Note!

Connection to ground

When installing the device, ensure that it is has a ground connection.

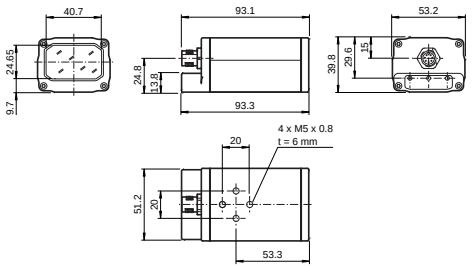


Figure 3.1: ODT-MAC335 Dimensions

3.2 Connecting the device

Make sure that the following conditions are fulfilled:

- The housing must be grounded.
- Always use shielded cables.

  Connect the cable shield to the housing on the RS 232 connector.

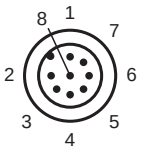


Figure 3.2: Connection layout for supply voltage and inputs and outputs

1 Trigger input

2 24 V supply to device

3 RS 232_RX

4 24 V external power supply (I/O)

5 External ground (GND)

6 GOOD output

7 Device ground (GND)

8 RS 232_TX

Danger!

Warning

Live lines

Before mounting the reader or sensor, make sure that the power supply is switched off.

Connecting cable

To connect a cable to the sensor, proceed as follows:

1. Plug the 8-pin M12 socket into the connector provided for this purpose on the black of the housing.
2. Tighten the cap nut over the connector.

   This ensures that the power cable cannot be inadvertently pulled out.

Connecting supply voltage

To provide power to the sensor, proceed as follows:

1. Connect the ground from the power supply provided to pin 7 on the reader.
2. Then connect the 24 V DC supply from the power supply provided to pin 2 on the reader.
3. To use the RS 232 interface and the input and output, you can connect the 24 V DC power supply to pin4 and ground to pin 5. The 24 V DC power supply and the 24 V external supply are galvanically isolated, allowing two independent supply voltages to be used.

   The reader is now connected to the supply voltage.

Connecting RS 232 interface

To connect the RS 232 interface, proceed as follows:

1. If necessary, switch off the PC before making connections to the serial interface on the PC.
2. Connect the RX line (pin 3) on the reader to the corresponding TX line on the PC.
3. Connect the TX line (pin 8) on the reader to the corresponding RX line on the PC.

   The reader is now connected to the RS 232 interface on the PC.

Inputs and outputs

The reader has a trigger output and a good output:

1. Connect the external trigger signal to pin 1 on the reader.
2. If you wish to evaluate the good signal on the reader, please connect the line to pin 6 on the reader.

4 Commissioning

4.1 Reading a code

This reader uses digital camera technology to record an image of the code to be read. After an image has been recorded, the reader uses highly developed evaluation procedures to evaluate the data contained in the recording.

Note!

Because of the large detection area of the reader, we advise you to cover the codes you do not wish to scan to prevent you from inadvertently configuring the incorrect setting.

Reading a code

1. Position the code you wish to read centrally in front of the reader.

   The reader can also read symbols that are not centrally located, but not as easily as central codes. If two codes are located within the field of view, the reader decodes the symbol closest to the center of the reader.

2. Issue the trigger signal.

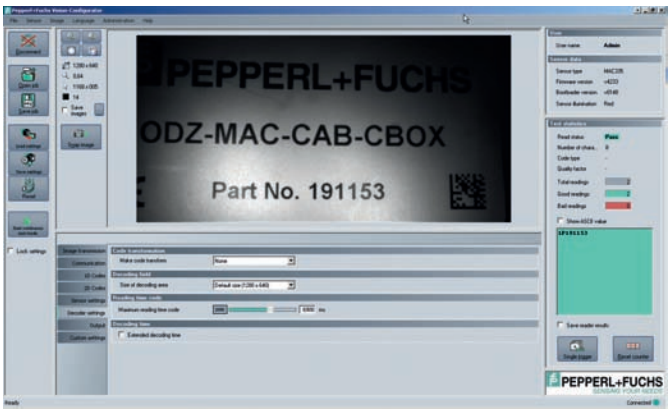
   The GOOD LED on the back of the reader lights up, indicating that the codes were recorded and decoded successfully.

5 Operation

5.1 Operation using Vision Configurator

The “Vision Configurator” software provides you with a user-friendly interface for convenient operation of the reader. With the use of an XML configuration file, the reader can be adapted to the particular requirements of your plant.

Standard tasks include establishing connections to the reader, programming operating parameters and system maintenance, as well as the transfer and display of data and error diagnostics.



Note!

Minimum hardware and software requirements

Before you begin installing the software, check that all minimum hardware and software requirements are met.

The minimum hardware and software requirements are listed below:

- Processor: Pentium III 1 GHz
- Working memory: min. 512 MB RAM
- Hard disk space: min. 10 GB free hard disk space
- .Net Runtime Environment 2.0

Installing the software

To install the software on the computer, proceed as follows:

1. Download the latest version of the Vision Configurator from the internet.
2. Open the file "VisionConfigurator_setup.exe".
3. Follow the instructions for the installation process.

   You can start the software once the installation process has finished.

5.2 Operation via code reading

You can configure some settings directly by scanning in special codes.

The reader uses the following factory settings:

- RS 232 mode
- 57600 baud
- 2 stop bits
- No parity
- Text commands on
- Sleep mode off

FACTORY AUTOMATION – SENSING YOUR NEEDS

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