

Function

The stationary reader is a reading system for the recognition of data matrix codes.

With a powerful signal processor and optimized decoding algorithms, the device delivers delivers extremely high reading speeds.

The configuration is easy and comfortable via the standard Ethernet interface using a standard web browser or via serial port.

The device is supported by an integrated laser pointer and the VGA video output. In addition, the device has an integrated error image memory.

Typical operative range of stationary readers are:

- Document handling
- Printing machines -
- _ Identification in packaging and warehousing technology
- Detection of PCBs _

 $\left(4\right)$

Indicating / Operating means



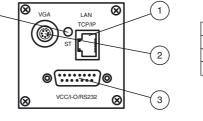
Model Number

ODT-MAC401-LD-RD

Stationary high-speed read device for code speeds up to 20 m/s and 60 fps, Data Matrix ECC 200 Code, angled line of sight, VGA resolution, Ethernet, RS 232, with extended read distance

Features

- Up to 60 readings per second ٠
- Movement speeds of up to 20 m/s ٠
- Omni-directional reading •
- Evaluation of up to 256 gray values . with adaptive gray value threshold
- VGA output ٠
- Simple focussing via laser pointers
- Integrated error image memory



1	Socket LAN	
2	Socket VGA	
3	Plug 24VDC + IO	
4	Status LED	yellow/red/green

Electrical connection

VGA		LAN	
Pin	5 Signal	Pin	Signal
1	OUT VSYNC	1	TX+ Ethernet
2	GND	2	TX- Ethernet
3	OUT R	3	RX+ Ethernet
4	OUT G	4	NC
5	GND	5	NC
6	OUT B	6	RX- Ethernet
7	OUT HSYNC	7	NC
		8	NC

VCC/I-O/RS232

Pin	Signal	Pin	Signal				
1	GND	9	OUT 1				
2	GND	10	OUT 2				
3	GND IO	11	IN 1				
4	+UB	12	NC				
5	+UB	13	TX RS232				
6	+UB IO	14	RX RS232				
7	NC	15	IN 3				
8	IN 2						

Pepperl+Fuchs Group

www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

Germany: +49 621 776 4411 fa-info@us.pepperl-fuchs.com fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



1

Technical data

General specifications Light type Laser nominal ratings Note Laser class 2 Wave length Beam divergence Maximum optical power output **Symbologies** Read distance Depth of focus Reading field Modul size Sensor principle Evaluation frequency Target velocity Data Matrix Symbol size Data format Data capacity Orientation Nominal ratings Camera Туре Number of pixels 256 Gray scale Image recording Indicators/operating means LED indicator **Electrical specifications** Operating voltage U_B No-load supply current I₀ Power consumption P_0 6 W Interface Physical Protocol Transfer rate Cable length Output Number/Type Switching voltage Switching current Cable length Output 1 Output type Resolution Ambient conditions Ambient temperature Storage temperature Mechanical specifications Protection degree IP20 Connection Material Housing Mass Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC Standard conformity Noise immunity Emitted interference Protection degree

Integrated LED lightning (red) LASER LIGHT , DO NOT STARE INTO BEAM 650 nm < 1.5 mrad 0.5 mW Data Matrix ECC 200 ... 100 mm + 5 mm 50 mm x 30 mm $> 0.33 \, \text{mm}$ Camera system max. 60 Hz triggered \leq 20 m/s rectangular up to 48 x 48 modules rectangular up to 16 x 48 modules ASCII, C40, Text, X12, Edifact, Base 256 , all according to ISO 646 348 numerical, 259 ASCII, 172 Byte omnidirectional CMOS . Global shutter 752 x 480 pixels real-time, Program-controlled or triggered externally for good/poor reading 24 V DC ± 15% , PELV max. 250 mA **BS 232** ASCII 9600 ... 115200 Bit/s max. 30 m 2 electronic outputs, PNP , optically decoupled optional up to 4 outputs to be applied externally 24 V ± 15 % PELV 100 mA each output max. 30 m Video output, RGB (75 Ohm), 1 Vpp VGA, 800 x 600 pixels 0 ... 45 °C (32 ... 113 °F) -20 ... 60 °C (-4 ... 140 °F) Video: 7-pin socket Power supply/interfaces/inputs and outputs: Sub-D 15-pin UNC LAN : RJ-45 socket, 8-pin powder coated diecast zinc approx. 760 g EN 61326-1 . EN 61000-6-4 EN 61326-1 EN 61000-6-4 EN 60529 IEC 60825-1:2007 Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

Accessories

ODZ-MAC-CAB-VIDEO Video cable VGA

ODZ-MAC-CAB-15POL-2,5M-FEMALE Connecting cable Sub-D jack, 15-pin

V45-G-10M-V45-G Network cable RJ-45, Category 5

ODZ-TRIGGERBOX-SK Trigger box for fixed mounted readers

ODZ-MAC-CAB-15POL-5M-FEMALE Connecting cable Sub-D jack, 15-pin

ODZ-MAC-PWR-24V 24 V DC power supply

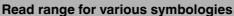
ODZ-MAC-CAB-24V-R2-2M Connecting cable for power supply/RS 232

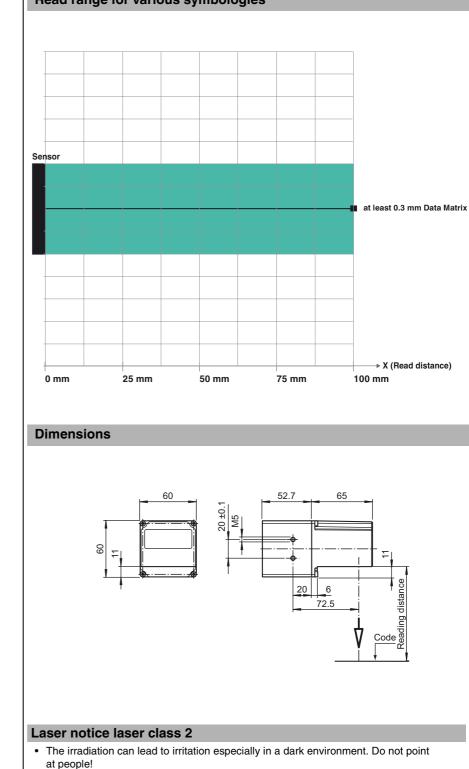
Other suitable accessories can be found at www.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com



Laser class





- Caution: Do not look into the beam! .
- Maintenance and repairs should only be carried out by authorized service personnel!
- ٠ Attach the device so that the warning is clearly visible and readable.
- Caution Use of controls or adjustments or performance of procedures other than those • specified herein may result in hazardous radiation exposure.

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

