

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



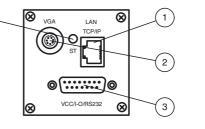
Model Number

ODT-MAC401-ND-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

Features

- Up to 60 readings per second
- Movement speeds of up to 20 m/s
- Omni-directional reading
- Evaluation of up to 256 gray values with adaptive gray value threshold
- VGA output
- 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 7 (100) 2 3		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 2 3 4 5 6 7 8	GND GND IO +UB +UB IO NC IN 2	9 10 11 12 13 14 15	OUT 1 OUT 2 IN 1 NC TX RS232 RX RS232 IN 3					

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Pepperl+Fuchs Group • Tel.: Germany +49 621 776-0 • USA +1 330 4253555 • Singapore +65 67799091 • Internet http://www.pepperl-fuchs.com

Technical data

General specifications Light type Laser nominal ratings Note Laser class 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 Gray scale Image recording Indicators/operating means LED indicator **Electrical specifications** Operating voltage U_B No-load supply current I₀ Power consumption P_0 Interface Physical Protocol Transfer rate Cable length Interface 1 Interface type Protocol Transfer rate Cable length Input Input voltage Number/Type Input current 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 Connection

LASER LIGHT , DO NOT STARE INTO BEAM 2 650 nm < 1.5 mrad 0.5 mW Data Matrix ECC 200 60 mm + 5 mm 30 mm x 20 mm > 0.2 mm Camera system max. 60 Hz triggered ≤ 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 256 real-time, Program-controlled or triggered externally for good/poor reading 24 V DC ± 15% , PELV max. 250 mA 6 W **BS 232** ASCII 9600 ... 115200 Bit/s max. 30 m Ethernet TCP/IP 100 MBit/s max. 30 m to be applied externally 24 V ± 15% PELV 1 trigger input optional up to 4 inputs approx. 5 mA at 24 V DC 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) IP20 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

Integrated LED lightning (red)

Mass Compliance with standards and directives

Directive conformity

Material Housing 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

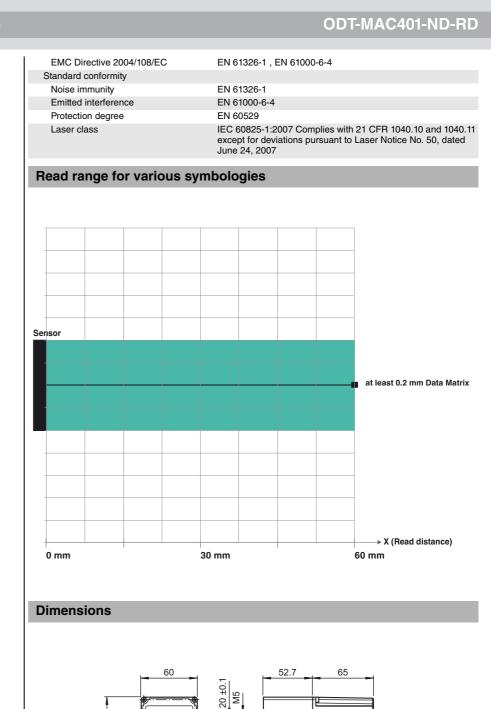
ODZ-MAC-CAB-15POL-5M-FEMALE Connecting cable Sub-D jack, 15-pin

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

Subject to reasonable modifications due to technical advances



Laser notice laser class 2

60 Ξ

- The irradiation can lead to irritation especially in a dark environment. Do not point at people!
- Caution: Do not look into the beam!
- Maintenance and repairs should only be carried out by authorized service personnel!
- 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.

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20 6 72.5 distance

Code