





Model Number

ODT-MAC400-ND-RD-MC

Stationary multicode read device for all common 1D, 2D and Pharmacodes at speeds of 6 m/s, angled line-of-sight, VGA resolution, Ethernet, RS 232

Features

- · 30 scans per second
- VGA output
- Simple focussing via laser pointers
- Integrated error image memory
- 10 m/s motion speed

Function

The stationary reading device is an optical identification system for reading up to 26 several code symbology. With a powerful signal processor and optimized decoding algorithms, the device delivers delivers extremely high reading speeds.

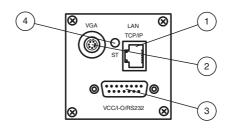
The configuration is easy and comfortable via the standard Ethernet interface using a standard web browser or via serial port.

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

Indicating / Operating means



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

Electrical connection

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

Technical data		
General specifications		
Light type		Integrated LED lightning (red)
Laser nominal ratings		mogration === ng.mmig (100)
Note		LASER LIGHT , DO NOT STARE INTO BEAM
Laser class		2
Wave length		650 nm
Beam divergence		< 1.5 mrad
Maximum optical power output		0.5 mW
Symbologies		Maxi Code, PDF 417, Data Matrix, QR Code, MicroPDF 417, GoCode, UCC Composite, Aztec Code, Code 39, Code 128, UPC, EAN, JAN, Int 2 of 5, Codabar, Code 93, UCC RSS, POSTNET, PLANET, Japanese Post, Australia Post, Royal Mail, RM4SCC, KIX Code, Codablock, Pharmacode
Read distance		60 mm
Depth of focus		± 5 mm
Reading field		30 mm x 20 mm
Sensor principle		Camera system
Evaluation frequency		max. 30 Hz
Target velocity		triggered ≤ 10 m/s
Nominal ratings		
Camera		0400 01111
Type Number of pixels		CMOS , Global shutter
Number of pixels		752 x 480 pixels 256
Gray scale		real-time , Program-controlled or triggered externally
Image recording		real-time, Program-controlled or triggered externally
Indicators/operating means LED indicator		for good/near reading
		for good/poor reading
Electrical specifications		24 V DC + 159/ DELV
Operating voltage	U _B	24 V DC ± 15% , PELV max. 250 mA
No-load supply current Power consumption	I ₀ P ₀	6 W
Interface	10	· · · · · · · · · · · · · · · · · · ·
Physical		RS 232
Protocol		ASCII
Transfer rate		9600 115200 Bit/s
Cable length		max. 30 m
Output		
Number/Type		2 electronic outputs, PNP, optically decoupled
Switching voltage		to be applied externally 24 V ± 15 % PELV
Switching current		100 mA each output
Cable length		max. 30 m
Output 1		
Output type		Video output, RGB (75 Ohm), 1 Vpp
Resolution		VGA, 800 x 600 pixels
Ambient conditions		
Ambient temperature		0 45 °C (32 113 °F)
Storage temperature		-20 60 °C (-4 140 °F)
Mechanical specifications		
Protection degree		IP20
Connection		Video: 7-pin socket Power supply/interfaces/inputs and outputs: Sub-D 15-pin UNC LAN: RJ-45 socket, 8-pin
Material		
Housing		powder coated diecast zinc
Mass		approx. 760 g
Compliance with standards and ves	directi-	
Directive conformity		EN SIGNAL EN SIGNAL A
EMC Directive 2004/108/EC		EN 61326-1 , EN 61000-6-4
Standard conformity		The same of
Noise immunity		EN 61326-1
Emitted interference		EN 61000-6-4
Protection degree		EN 60529

Accessories

ODZ-MAC-CAB-VIDEO

Video cable VGA

ODZ-MAC-CAB-24V-R2-2M

Connecting cable for power supply/RS 232

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

ODZ-MAC-CAB-15POL-5M-FEMALE

Connecting cable Sub-D jack, 15-pin ODZ-TRIGGERBOX-SK

Trigger box for fixed mounted readers

V45-G-10M-V45-G

Network cable RJ-45, Category 5

ODZ-MAC-PWR-24V

24 V DC power supply

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

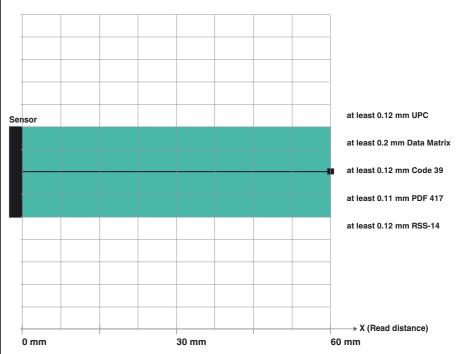
June 24, 2007

IEC 60825-1:2007 Complies with 21 CFR 1040.10 and 1040.11

except for deviations pursuant to Laser Notice No. 50, dated

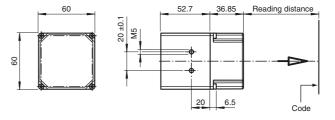
Laser class

Read range for various symbologies



Note: Smallest symbology that can be read is 0,11 mm PDF417

Dimensions



Laser notice laser class 2

- 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.