Model Number

ODT-MAC401-LD-RD-MC

Stationary multicode read device for all common 1D, 2D and Pharmacodes at speeds of 10 m/s, angled line-of-sight, VGA resolution, Ethernet, RS 232

Features

- 30 scans per second
- 10 m/s motion speed
- All common 1D or 2D codes can be read
- VGA output
- Simple focussing via laser pointers
- Integrated error image memory

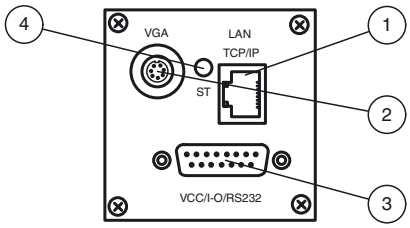
Function

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

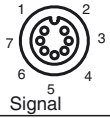
Indicating / Operating means



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

Electrical connection

VGA

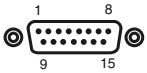


Pin	Signal
1	OUT VSYNC
2	GND
3	OUT R
4	OUT G
5	GND
6	OUT B
7	OUT HSYNC

LAN

Pin	Signal
1	TX+ Ethernet
2	TX- Ethernet
3	RX+ Ethernet
4	NC
5	NC
6	RX- Ethernet
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		

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Technical data

General specifications		
Light type		Integrated LED lightning (red)
Laser nominal ratings		
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		100 mm
Depth of focus		± 5 mm
Reading field		50 mm x 30 mm
Sensor principle		Camera system
Evaluation frequency		max. 30 Hz
Target velocity		triggered ≤ 10 m/s
Nominal ratings		
Camera		
Type		CMOS , Global shutter
Number of pixels		752 x 480 pixels
Gray scale		256
Image recording		real-time , Program-controlled or triggered externally
Indicators/operating means		
LED indicator		for good/poor reading , ,
Electrical specifications		
Operating voltage	U_B	24 V DC ± 15% , PELV
No-load supply current	I_0	max. 250 mA
Power consumption	P_0	6 W
Interface		
Physical		RS 232
Protocol		ASCII
Transfer rate		9600 ... 115200 Bit/s
Cable length		max. 30 m
Interface 1		
Interface type		Ethernet
Protocol		TCP/IP
Transfer rate		100 MBit/s
Cable length		max. 30 m
Input		
Input voltage		to be applied externally 24 V ± 15% PELV
Number/Type		1 trigger input optional up to 4 inputs
Input current		approx. 5 mA at 24 V DC
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 directives		
Directive conformity		
EMC Directive 2004/108/EC		EN 61326-1 , EN 61000-6-4
Standard conformity		
Noise immunity		EN 61326-1
Emitted interference		EN 61000-6-4
Protection degree		EN 60529

Accessories

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

ODZ-MAC-CAB-VIDEO
Video cable VGA

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

ODZ-TRIGGERBOX-SK
Trigger box for fixed mounted readers

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

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

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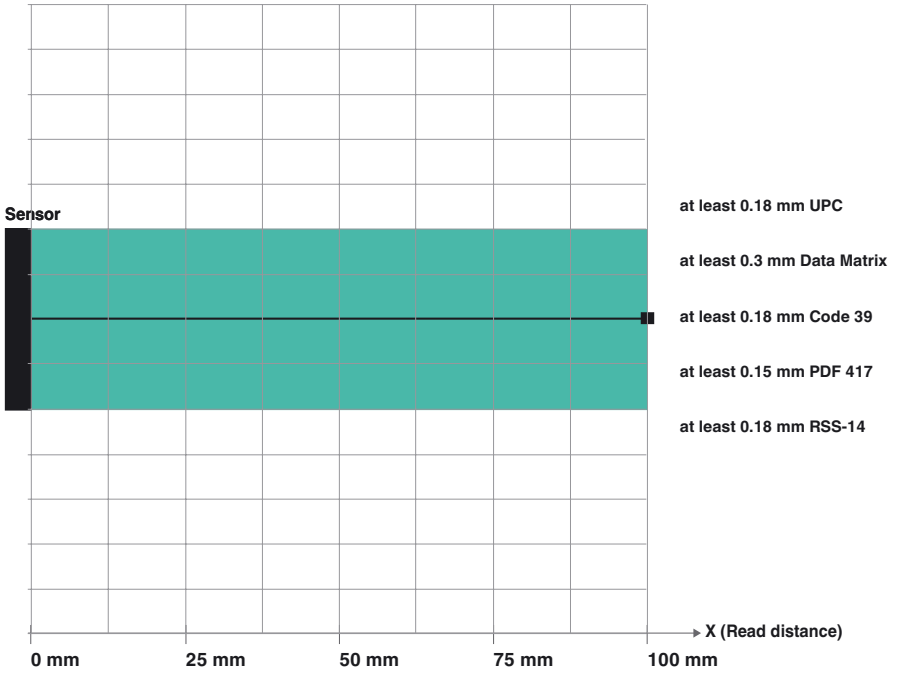
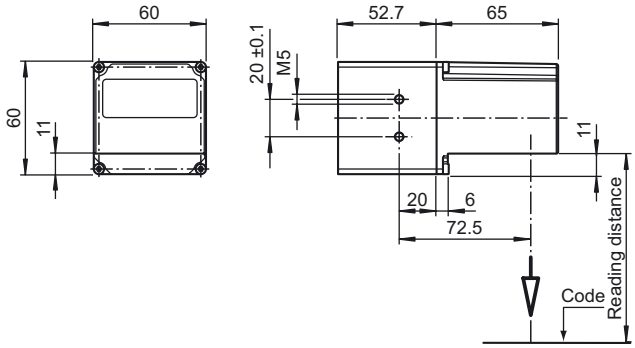
Laser class	IEC 60825-1:2007 Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

Read range for various symbologies



Note: Smallest symbology that can be read is 0,15 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.

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