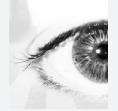


Stationary read device ODT-MAC431-ND-WH

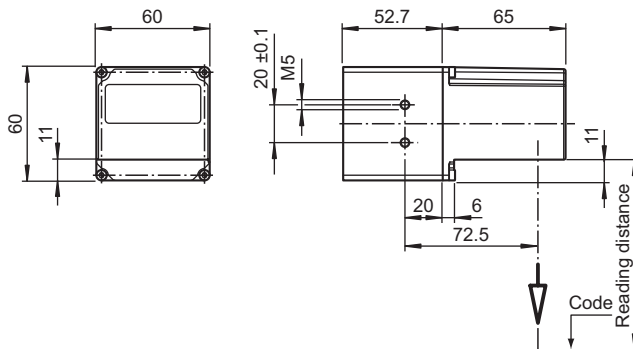


- Movement speeds of up to 20 m/s
- Up to 60 readings per second
- VGA output
- Integrated error image memory

Stationary high-speed read device for code speeds up to 20 m/s and 60 fps, data matrix ECC 200 code, angled line of vision, Ethernet, RS 232



Dimensions



Technical Data

General specifications

Light type	Integrated LED lightning (white)
Symbologies	Data Matrix ECC 200
Read distance	60 mm
Depth of focus	± 5 mm
Reading field	30 mm x 20 mm
Modul size	min. 0.2 mm
Evaluation frequency	max. 60 Hz
Target velocity	triggered max. 20 m/s
Data Matrix	
Symbol size	rectangular up to 144 x 144 modules rectangular up to 16 x 48 modules
Data format	ASCII, C40, Text, X12, Edifact, Base 256 , all according to ISO 646
Data capacity	348 numerical, 259 ASCII, 172 Byte
Orientation	omnidirectional
Nominal ratings	

Release date: 2020-04-09 Date of issue: 2020-05-08 Filename: 225646_eng.pdf

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PEPPERL+FUCHS

Technical Data

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 , Trigger , LAN , Match code	
Electrical specifications			
Operating voltage	U_B	24 V DC \pm 15% , PELV	
No-load supply current	I_0	max. 250 mA	
Power consumption	P_0	6 W	
Interface			
Physical		Ethernet	
Protocol		TCP/IP	
Transfer rate		100 MBit/s	
Cable length		max. 30 m	
Interface 1			
Interface type		RS 232	
Protocol		ASCII	
Transfer rate		9600 Bit/s ... 115200 Bit/s	
Cable length		max. 30 m	
Input			
Input voltage		to be applied externally 24 V \pm 15% PELV	
Input current		approx. 10 mA at 24 V DC	
Cable length		max. 30 m	
Output			
Number/Type		4 electronic outputs, PNP	
Switching voltage		24 V \pm 15 %	
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	
Cable length		2 m	
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	
Degree of protection		EN 60529	
Laser class		IEC 60825-1:2007	
Ambient conditions			
Ambient temperature		0 ... 45 °C (32 ... 113 °F)	
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)	
Mechanical specifications			
Degree of protection		IP65	
Connection		8-pin, M12x1 connector, standard (supply+IO) 5-pin, M12x1 socket, standard (IO) 4-pin, M12x1 socket, standard (LAN) Video: 7-pin socket	
Material			
Housing		powder coated diecast zinc	
Mass		approx. 760 g	

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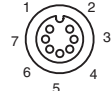
Connection

RS 232



Pin	Signal
1	+UB
2	TX RS232
3	GND
4	RX RS232
5	IN 5 / OUT 3

VGA



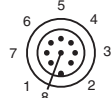
Pin	Signal
1	OUT VSYNC
2	GND
3	OUT R
4	OUT G
5	GND
6	OUT B
7	OUT HSYNC

LAN



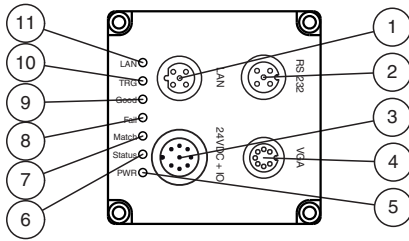
Pin	Signal
1	TX+ Ethernet
2	RX+ Ethernet
3	TX- Ethernet
4	RX- Ethernet

(24 V DC + I/O)

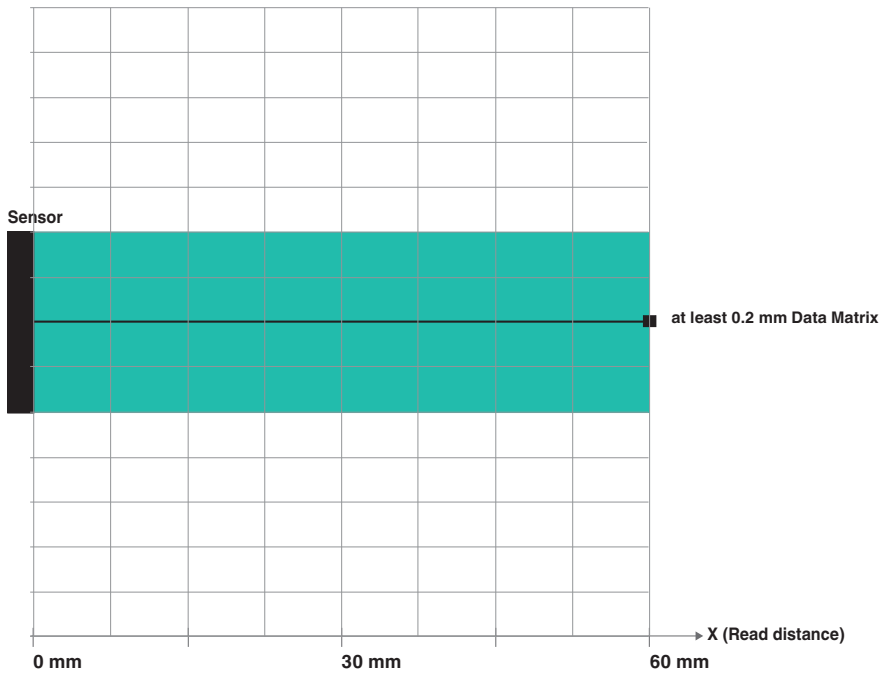


Pin	Signal
1	IN TRG / OUT 1
2	+UB
3	OUT Good / IN 1
4	OUT Fail / IN 2
5	IN 3
6	IN 4 / OUT 2
7	GND
8	OUT Match

Assembly



1	Socket LAN
2	Socket RS 232
3	Connector 24VDC + IO
4	Socket VGA
5	PWR
6	Status
7	Match
8	Fail
9	Good
10	TRG
11	LAN



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Accessories

	V19-G-2M-PUR-ABG	Female cordset, M12, 8-pin, shielded, PUR cable
	V15S-G-5M-PUR-ABG	Male cordset, M12, 5-pin, shielded, PUR cable
	V1SD-G-2M-PUR-ABG-V45-G	Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e
	V1SD-G-2M-PUR-ABG-V45X-G	Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e
	ODZ-MAC-CAB-VIDEO	Video cable VGA

Instruction Manual

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 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 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

Accessories

Additional accessories can be found in the Internet.