

# High temperature identification system OIT500-F113-B17-CB

- High-temperature code carrier up to 500 °C (932 °F)
- PROFINET interface with integrated switch
- Connection to Ethernet TCP/IP
- Optional reading of CB3 code plates
- Sturdy and compact design
- Integrated illumination
- High operating range
- Large sensing range
- High depth of focus

Optical high temperature identification system, 300 to 450 mm

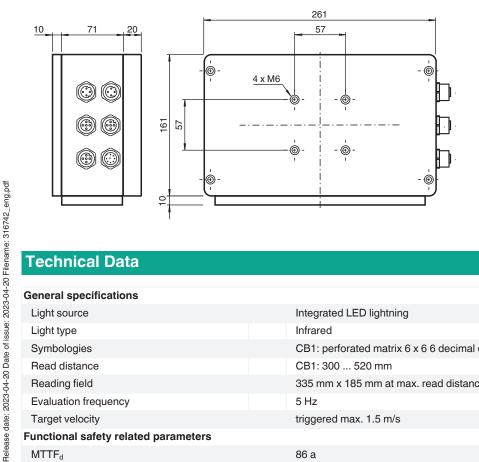


## **Function**

The OIT500-\* stationary read device is an optical identification system that works using industrial vision methods and is used in automated manufacturing processes. The ambient conditions in painting facilities in particular, for example the cyclical temperature changes, often make the use of read-only tags with electronic components difficult if not impossible. For the OIT high-temperature identification system, read-only tags of solid metal plates with a perforated matrix are used, which are designed for use at temperatures of up to 500 °C and suitable for high mechanical

Simple installation and commissioning without complicated, time-consuming Teach-In processes enable rapid entry. The integrated PROFINET interface enables simple integration into the controller. A scratch-resistant, replaceable quartz glass panel and sturdy metal housing make the OIT500-\* a robust, efficient identification system.

### **Dimensions**



# **Technical Data**

General specifications	
Light source	Integrated LED lightning
Light type	Infrared
Symbologies	CB1: perforated matrix 6 x 6 6 decimal digits
Read distance	CB1: 300 520 mm
Reading field	335 mm x 185 mm at max. read distance
Evaluation frequency	5 Hz
Target velocity	triggered max. 1.5 m/s
Functional safety related parameters	
MTTF <sub>d</sub>	86 a

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

Technical Data	
rechinical Bata	
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %
ndicators/operating means	
LED indication	status, Function, communication
Electrical specifications	
Operating voltage	$U_B$ 24 V DC ± 15%, PELV
Operating current	I <sub>B</sub> 200 mA without output drivers
nterface 1	
Interface type	100 BASE-TX
Protocol	PROFINET IO Real-Time (RT) Conformance Class B Netload Class III
Transfer rate	100 Bit/s
nterface 2	
Interface type	Ethernet
Protocol	TCP/IP
Transfer rate	100 MBit/s
nput	
Input voltage	24 V DC low: < 8 V, high: > 12 V
Number/Type	2 trigger input and supply max. 4 switching inputs
Output	
Number/Type	supply max. 200 mA and 1 control output for External lighting max. 4 switching outputs programmable
Switching voltage	operating voltage minus voltage drop typ. 1.1 V
Switching current	100 mA each output
Conformity	
Shock resistance	EN 60068-2-27:2009
Vibration resistance	EN 60068-2-6:2008
Emitted interference	EN 61000-6-4:2007+A1:2011
Noise immunity	EN 61000-6-2:2005
Photobiological safety	EN 62471:2008 exempt group
Approvals and certificates	
CE conformity	CE
Ambient conditions	
Ambient temperature	0 60 °C (32 140 °F)
Storage temperature	-20 75 °C (-4 167 °F)
Mechanical specifications	
Degree of protection	IP67
Connection	8-pin, M12x1 connector, standard (supply+IO) 2 x 4-pin, M12x1 socket, D-coded (LAN) 3 x 5-pin, M12x1 socket, A-coded ( Trigger , External lighting )
Material	
Housing	diecast aluminum powder coated
Mass	approx. 4000 g



# Connection

## 4-pin M12 socket, D-coded

(PROFINET 1 & 2)



### Pin Signal

- Tx+
- Rx+
- 2 Tx -Rx -
- 5-pin M12 socket

(Trigger 1 & 2)



#### Signal Pin

- 24 V power supply
- not connected
- Ground
- 2 3 4 5 Trigger signal
- not connected

### 5-pin M12 socket

(external illumination)



# Pin Signal

- 24 V power supply
- 2
- not connected Ground
- Illumination control
- not connected

# 8-pin M12 plug (Power & IO's)



## Pin Signal

- I/O 1
- 24 V power supply 2
- 3 not connected
- not connected
- 5 1/02
- I/O 3 6
- Ground I/O 4

# Accessories

	V19-G-2M-PUR-ABG	Female cordset single-ended M12 straight A-coded, 8-pin, PUR cable grey, shielded
	V19-G-ABG-PG9	Female connector M12 straight A-coded 8-pin, for cable diameter 5 - 8 mm, shielded, field-attachable
	OIZ-FG500	Replacement glass for series OIT300, OIT500 and OIT1500
<u>O</u> m	Vision Configurator	Operating software for camera-based sensors
61	V1S-G-2M-PUR	Male cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey
	OIC-C10V2A- CB1-xxxxxx-yyyyyy	Code carrier for optical high-temperature identification system, stainless steel
	V1SD-G-GN2M-PUR-E1S- V45-G	Ethernet bus cable M12 plug straight D-coded to RJ45 Ethernet-coded, 4-pin, PUR cable green, Cat5e, shielded, drag chain suitable

