Model Number

OIT500-F113-B12-CB

Optical high temperature identification system, 200 to 450 mm

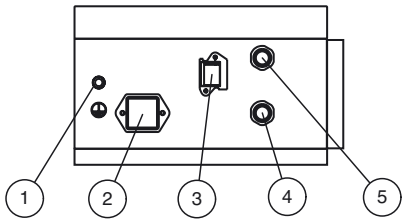
Features

- High-temperature code carrier up to 500 °C (932 °F)
- Sturdy and compact design
- Integrated illumination
- High operating range
- Large sensing range
- High depth of focus

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 automobile construction 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 stress.
Simple installation and commissioning without complicated, time-consuming Teach-In processes enable rapid entry. Pluggable connections for the rapid exchange of devices and a controller with simple command set via the Ethernet interface guarantee simple operation. A scratch-resistant, replaceable quartz glass panel and sturdy metal housing make the OIT500-* a robust, efficient identification system.

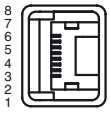
Indicating / Operating means



1	Grounding screw
2	Power supply
3	Network
4	Trigger
5	external illumination

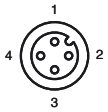
Electrical connection

8-pin Network connection
(LAN)



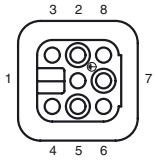
Pin	Signal
1	Transmit data (+)
2	Transmit data (-)
3	Receive data (+)
4	not assigned
5	not assigned
6	Receive data (-)
7	not assigned
8	not assigned

4-pin M12 socket
(external illumination)



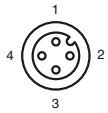
Pin	Signal
1	24 V power supply
2	Laser control
3	Ground
4	Illumination control

8-pin Harting connection
(Process)



Pin	Signal
1	Composite error output
2	External ground
3	Mode bit 1
4	Mode bit 0
5	24 V external power supply
6	24 V device power supply
7	Trigger release input
8	Device ground

4-pin M12 socket
(Trigger)



Pin	Signal
1	24 V power supply
2	not assigned
3	Ground
4	Trigger signal

Technical data

General specifications

Light source	Integrated LED lightning
Light type	infrared

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Symbologies		Hole matrix Data format: decimal Data capacity: 6 (numerical) Orientation: omnidirectional
Read distance		200 ... 450 mm
Depth of focus		± 50 mm
Reading field		330 mm x 250 mm at max. read distance
Evaluation frequency		5 Hz
Target velocity		triggered ≤ 0.5 m/s
Functional safety related parameters		
$MTTF_d$		51 a
Mission Time (T_M)		10 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green: supply LED green: ready
Function indicator		Yellow LED: trigger Yellow LED: code read Red LED: pre-fault Red LED: group error
Electrical specifications		
Operating voltage	U_B	24 V DC ± 15% , PELV
Operating current	I_B	250 mA without output drivers
Interface		
Physical		Ethernet
Protocol		TCP/IP
Transfer rate		100 MBit/s
Input		
Input voltage		to be applied externally 24 V ± 15% PELV
Number/Type		1 trigger input 2 control unit inputs , optically decoupled
Input current		approx. 1 mA at 24 V DC
Output		
Number/Type		1 electronic output, PNP, optically decoupled
Switching voltage		to be applied externally 24 V ± 15 % PELV
Switching current		100 mA each output
Ambient conditions		
Ambient temperature		0 ... 45 °C (32 ... 113 °F)
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications		
Degree of protection		IP64
Connection		8-pin Harting HAN RJ-45 2 x 5-pin M12 socket Supplied ferrite sleeve for suppression of the Ethernet cable
Material		
Housing		diecast aluminum powder coated
Mass		approx. 4000 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 61000-6-4:2007/A1:2011
Degree of protection		EN 60529
Approvals and certificates		
EAC conformity		TR CU 020/2011

Accessories

OIC-C10V2A-CB1
Code carrier for optical high-temperature identification system, stainless steel

V8HAN-G-10M-PVC-ABG
Female cordset, Harting, 8-pin, shielded, PVC cable

V45-GP-10M-PUR-ABG-V45-G
Connecting cable, RJ-45 to RJ-45, PUR cable

V45-GP
Field-attachable "Push-Pull" connector

V45-G
Field-attachable male connector

V1S-G-10M-PVC
Cable connector, M12, 4-pin, PVC cable

V8HAN-G
Female connector, Harting, 8-pin, field attachable

OITControl
Software for OIT high temperature identification system

OIZ-FG500
Replacement glass for series OIT300, OIT500 and OIT1500

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

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Refer to “General Notes Relating to Pepperl+Fuchs Product Information”.
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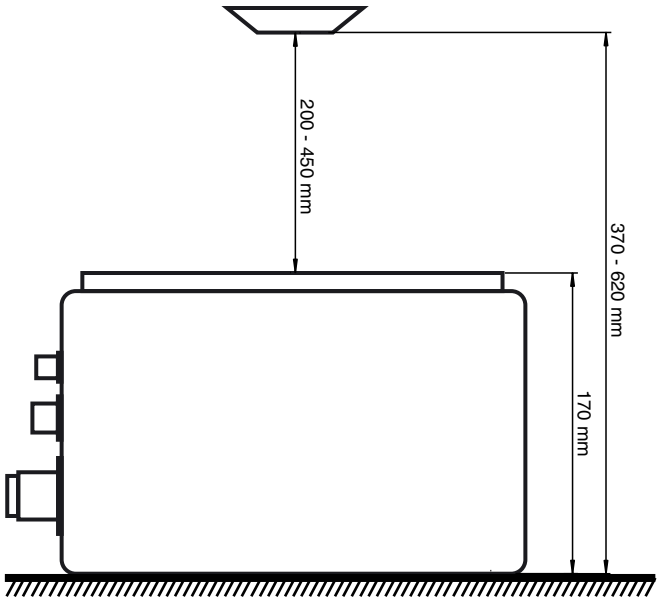
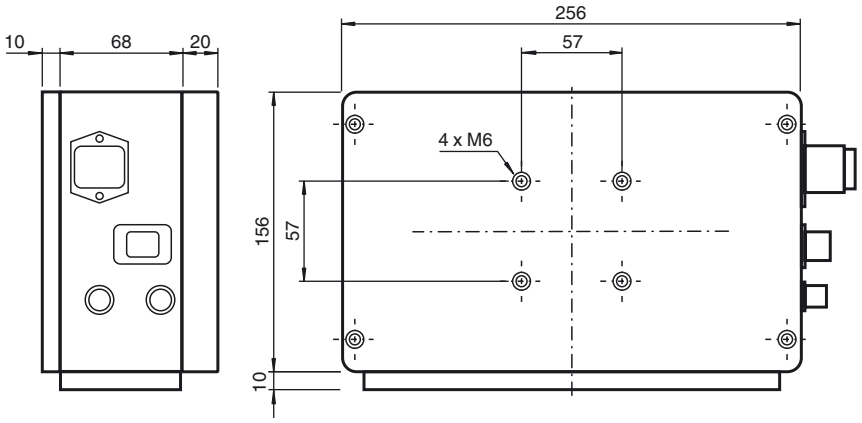
Notes



Dimensions



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