Model Number

OIT500-F113-B12-CB3

Optical high temperature identification system, 300 to 450 mm

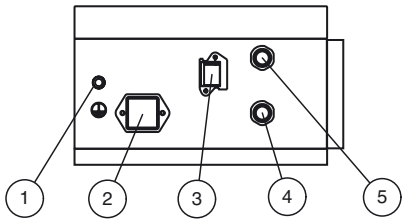
Features

- 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 OIT* 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 OIT* a robust, efficient identification system.

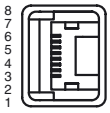
Indicating / Operating means



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

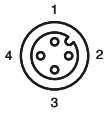
Electrical connection

8-pin Network connection
(LAN)



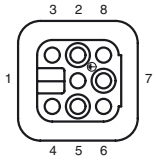
Pin	Signal
1	Transmit data (+)
2	Transmit data (-)
3	Receive data (+)
4	not assigned
5	not assigned
6	Receive data (-)
7	not assigned
8	not assigned

4-pin M12 socket
(external illumination)



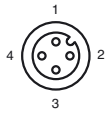
Pin	Signal
1	24 V power supply
2	not connected
3	Ground
4	Illumination control

8-pin Harting connection
(Process)



Pin	Signal
1	not connected
2	External ground
3	not connected
4	not connected
5	24 V external power supply
6	24 V device power supply
7	not connected
8	Device ground

4-pin M12 socket
(Trigger)



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

Technical data

General specifications

Light source	Integrated LED lightning
Light type	infrared

Release date: 2018-11-26 11:24 Date of issue: 2018-11-26 274807_eng.xml

Symbologies		CB1: perforated matrix 6 x 6 6 decimal digits CB3: hole pattern 3 x 12 12 binary digits
Read distance		CB1: 300 ... 450 mm CB3: 350 ... 400 mm
Reading field		340 mm x 210 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
Output		
Number/Type		1 conventional electronic output, PNP
Switching voltage		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
Material		
Housing		diecast aluminum powder coated
Mass		approx. 4000 g
Compliance with standards and directives		
Directive conformity		
EMC Directive 2004/108/EC		EN 61326-1:2013 , EN 61000-6-4:2007/A1:2011
Standard conformity		
Noise immunity		EN 61326-1:2013
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

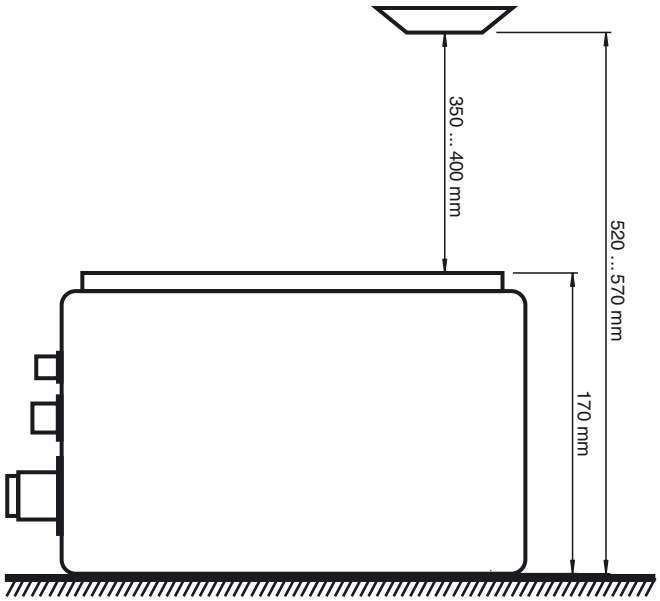
OIZ-FG500
Replacement glass for series OIT300, OIT500 and OIT1500

Vision Configurator
Operating software for camera-based sensors

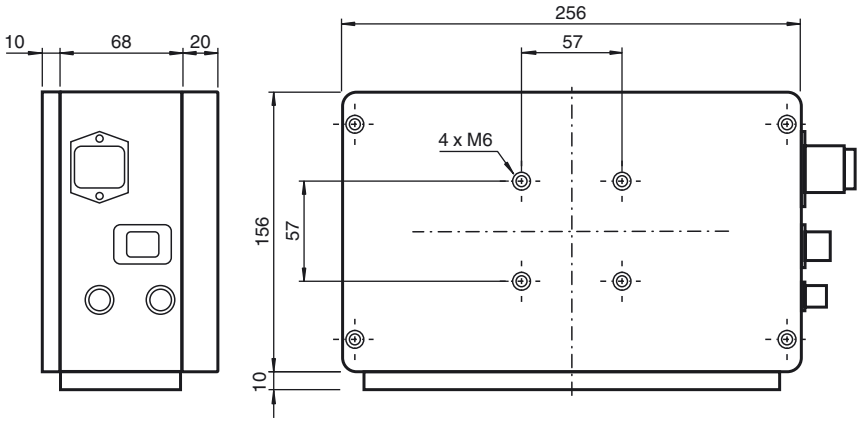
Other suitable accessories can be found at www.pepperl-fuchs.com

Release date: 2018-11-26 11:24 Date of issue: 2018-11-26 274807_eng.xml

Notes



Dimensions



Release date: 2018-11-26 11:24 Date of issue: 2018-11-26 274807_eng.xml