



High temperature identification system

OIT200-F113-B12-CB

- High-temperature code carrier up to 500 °C (932 °F)
- Sturdy and compact design
- Integrated illumination

Optical high temperature identification system, 140 to 200 mm

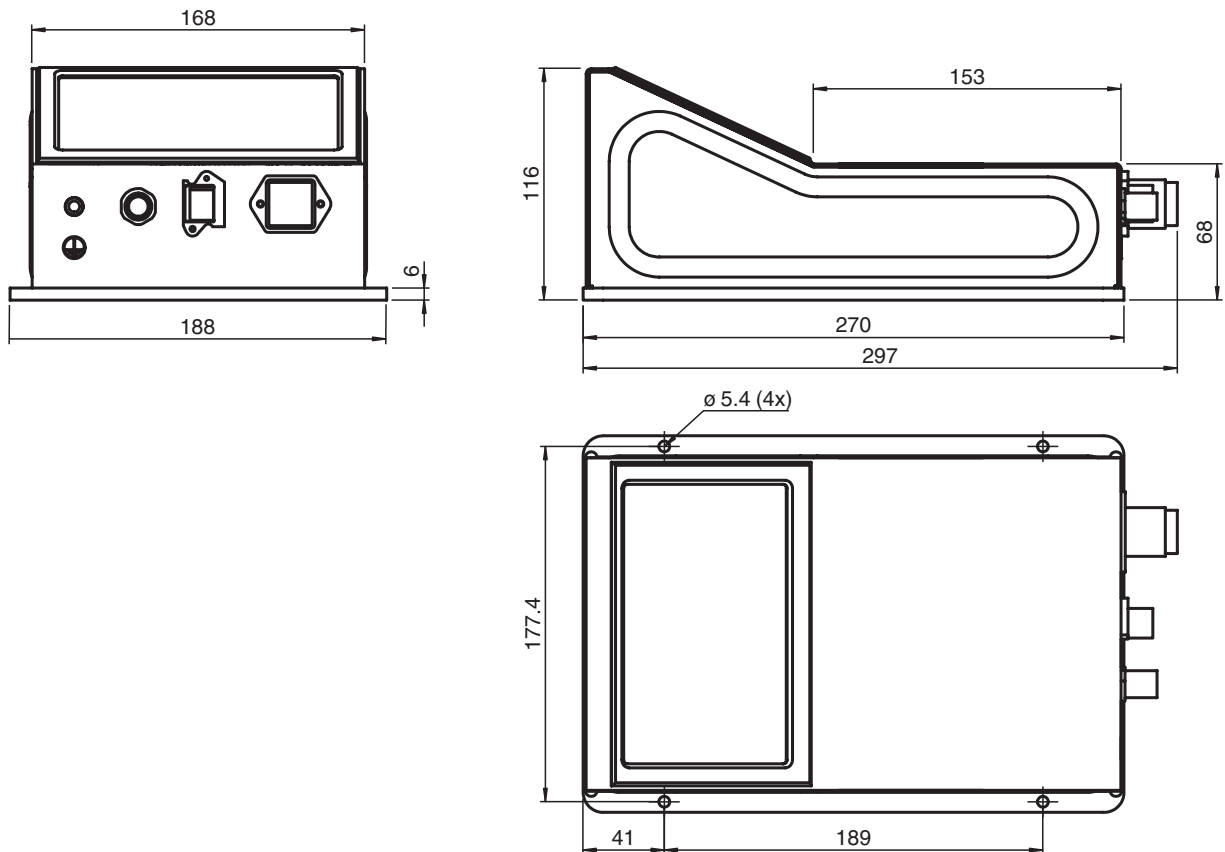


Function

The stationary scanner OIT200-F113-B12-CB is an optical identification system using the methods of industrial image processing, which finds application in automated manufacturing processes. In particular with bodyshell work, there are harsh ambient conditions, which complicate or render impossible the application of code carriers with electronic components due to cyclical changes in temperature, for example. For this reason, the high-temperature identification system OIT is fitted with code carriers with massive metal plates provided with a perforated matrix, which can withstand temperatures up to 500 °C and high mechanical loads.

Simple installation as well as commissioning without complicated and long-winded TEACH-IN enable fast application. Plug-in connections for fast exchange of devices and the control with simple command sets through an Ethernet interface ensure very easy operation. A scratch resistant quartz glass pane, which can be replaced, if and when required, as well as the stable metal housing turn the OIT200-F113-B12-CB into a robust and powerful identification system.

Dimensions



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

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Technical Data

General specifications		
Light source		Integrated LED lightning
Light type		infrared
Symbologies		Hole matrix Data format: decimal Data capacity: 6 (numerical) Orientation: omnidirectional
Read distance		140 ... 200 mm (factory setting) max. 260 mm
Reading field		210 mm x 135 mm at max. read distance
Evaluation frequency		5 Hz
Target velocity		triggered max. 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
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 61326-1:2013
Photobiological safety		EN 62471:2008 exempt group
Approvals and certificates		
CE conformity		CE
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 5-pin M12 socket Supplied ferrite sleeve for suppression of the Ethernet cable
Material		
Housing		Metal /high-grade steel powder coated
Mass		approx. 3100 g

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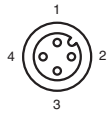
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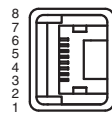
Connection Assignment

4-pin M12 socket (Trigger)



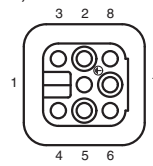
Pin	Signal
1	24 V power supply
2	not assigned
3	Ground
4	Trigger signal

8-pin Network connection (LAN)



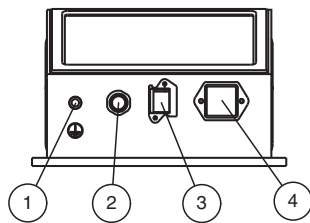
Pin	Signal
1	Transmit data (+)
2	Transmit data (-)
3	Receive data (+)
4	not assigned
5	not assigned
6	Receive data (-)
7	not assigned
8	not assigned

8-pin Harting connection (Process)



Pin	Signal
1	n.c. (reserved)
2	Ground for separate I/O supply (GND IO)
3	Mode bit 1 (MOD 1)
4	Mode bit 0 (MOD 0)
5	24 V supply for separate I/O (24 V IO)
6	24 V supply device
7	n.c. (reserved)
8	Device ground (GND)

Assembly



1	Erdung
2	Trigger
3	LAN
4	Process

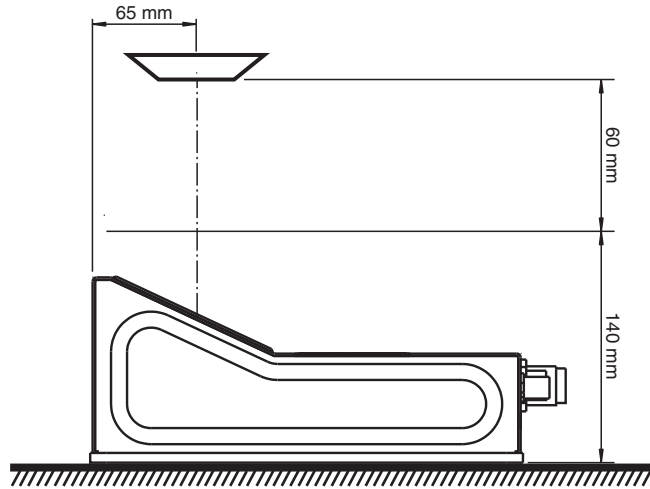
Accessories

	V8HAN-G-10M-PVC-ABG	Female cordset, Harting, 8-pin, shielded, PVC cable
	V45-GP-10M-PUR-ABG-V45-G	Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V45-GP	Male connector RJ45 straight 4-pin, Cat5, shielded, field-attachable, insulation displacement connection, Outdoor
	V1S-G-10M-PVC	Male cordset single-ended M12 straight A-coded, 4-pin, PVC cable grey
	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

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Installation Conditions

Distance Code Carrier / OIT



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