



Industrial process interface (PIF)

innovative infrared technology



# optnis® Industrial process interface

# TECHNICAL DATA

### Features:

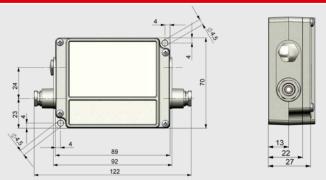
- Industrial process interface with 3 analog / alarm outputs, 2 analog inputs, 1 digital input, 3 alarm relaxs
- 500 VAC<sub>RMS</sub> isolation voltage between camera and process
- · Separate fail-safe relay output
- PI/Xi hardware including all cable connections and PIX Connect software are permanently observed during operation



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General	SUCUI	поаг	เเบเเอ
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Environmental rating	IP65 (NEMA-4)
Ambient temperature	−30 °C 85 °C
Storage temperature	−30 °C 85 °C
Relative humidity	10-95 %, non condensing
Vibration	IEC 60068-2-6 (sinusoidal form) IEC 60068-2-64 (broadband noise)
Shock	IEC 60068-2-27 (25 G and 50 G)
Weight	610 g (with 5 m cable)
Cable length	5 m HT cable (standard), optional 10 m and 20 m

## Technical images



Electrical parameters	
Power supply	5-24 V DC
LED display	2 green LEDs for power and fail-safe/ 3 red LEDs for alarm relay status
Isolation	500 VAC <sub>RMS</sub> between PI/Xi camera and process
Outputs	3 analog / alarm outputs 3 alarm relays <sup>1)</sup>
Inputs	2 analog inputs 1 digital input
Ranges	0/4-20 mA (for AO 1-3) 0-30 V / 400 mA (for alarm relays DO 1-3) 0-10 V (for Al 1-2) 24 V (for DI)

<sup>1)</sup> Active if AO1, 2 or 3 are programmed as alarm output

### Programmable features

Analog inputs	Emissivity setting     Ambient temperature compensation     Reference temperature     Uncommitted value     Flag control     Triggered snapshots, triggered recording, triggered line scan camera, triggered event grabber     Reset peak-/valley-hold	
Digital input	Flag control     Triggered snapshots, triggered recording, triggered line scan camera, triggered event grabber     Reset peak-/valley-hold	
Analog outputs	Main measure area Measure area Internal temperature Flag status Alarm Frame sync. Fail-safe External communication Center pixel (direct output)*	
*) Available only for the models PI 1M / PI 05M		

<sup>&</sup>lt;sup>)</sup> Available only for the models PI 1M / PI 05M

## Example for a fail-safe monitoring of the PI with a connected PLC PIF-terminal box convenient connection of process cables 5-24 V DC [1] **PLC** Vcc R [2] Low = OK **Digital IN** High = FS open [1-[3] PC **PIX Connect** [6] [5]

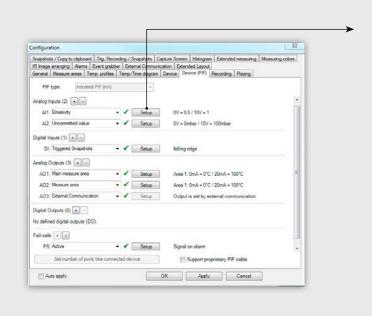
#### Fail-safe monitoring states

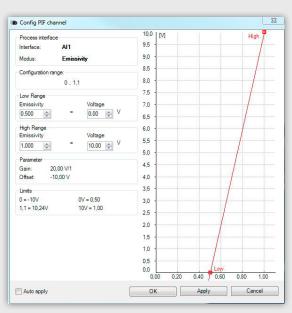
- [1] Breakdown of PIF power supply
- [2] Cable break of fail-safe cable
- [3] Interruption of cable PI PIF
- [4] Malfunction of PI camera
- [5] Breakdown of PI power supply/ Interruption of USB cable
- [6] Malfunction of PIX Connect software

#### Fail-Safe status:

Normal: Relay closed LED on Alarm: Relay open LED off

#### Snapshot of programmable features





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