



FOR THE SURVEYOR CAMERA SERIES



New

Industrial process interface (PIF)

innovative infrared technology



PSC Industrial process interface

TECHNICAL DATA

Features:

- Industrial process interface with 3 analog/ alarm outputs, 2 analog inputs, 1 digital input, 3 alarm relays
- 500 VAC_{RMS} isolation voltage between camera and process
- Separate fail-safe relay output
- PSC Surveyor hardware including all cable connections and PSC Surveyor Connect software are permanently observed during operation



General specifications

Environmental rating:	IP65 (NEMA-4)
Ambient temperature:	-30 °C to 85 °C
Storage temperature:	-30 °C to 85 °C
Relative humidity:	10-95 %, non-condensing
Vibration:	IEC 60068-2-6 (sinus shaped) IEC 60068-2-64 (broadband noise)
Shock:	IEC 60068-2-27 (25 g and 50 g)
Weight:	610 g (with 5 m cable)
Cable lengths:	5 m HT cable (standard), optional 10 m and 20 m

Electrical specifications

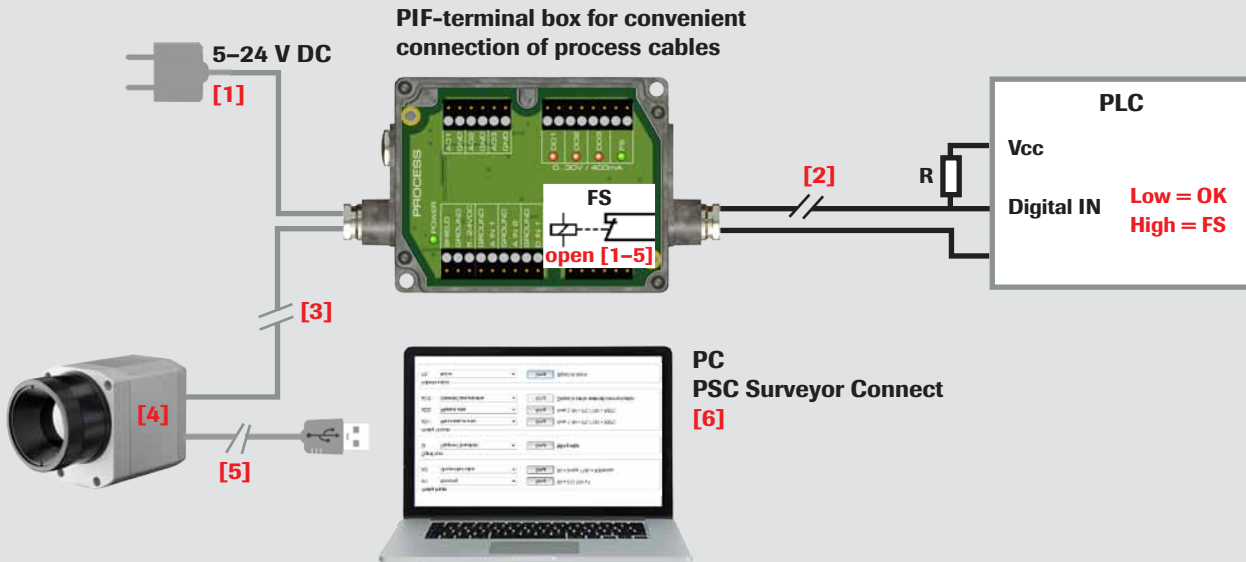
Power supply:	5-24 V DC
LED indication:	2 x green LEDs for power and fail-safe/ 3 x red LEDs for alarm relay status
Isolation:	500 VAC _{RMS} between PI camera and process
Outputs:	3 analog/ alarm outputs 3 alarm relays ¹⁾
Inputs:	2 analog inputs 1 digital input
Ranges:	0-10 V (for AO 1-3) ²⁾ 0-30 V / 400 mA (for alarm relays DO1-3) 0-10 V (for AI 1-2) 24 V (for DI)

1) active if AO1, 2 or 3 is / are programmed as alarm output
2) depending on supply voltage

Programmable features

Analog inputs:	<ul style="list-style-type: none"> • Emissivity setting • Ambient temperature compensation • Reference temperature • Uncommitted value • Flag control • Triggered snapshots, recordings, line scannings
Digital input:	<ul style="list-style-type: none"> • Flag control • Triggered snapshots, recordings, line scannings
Analog outputs:	<ul style="list-style-type: none"> • Main measure area • Measure area • Internal temperature • Flag status • Alarm • Frame sync. • Fail-safe • External communication

Example for a fail-safe monitoring of the PSC Surveyor with a connected PLC



Fail-safe monitoring states

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

Fail-safe status:

- Normal: relay closed LED on
- Alarm: relay open LED off

Snapshot of programmable features

PROCESS SENSORS

C O R P O R A T I O N



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