

# Model: PSC-CX

Digital, two wire, loop powered infrared temperature sensor for OEM applications



- High-performance, great value
- Simple 2-wire installation
- Wide range of -30°C to 900°C
- Optical resolution of 22:1
- Optional USB programming interface
- Alarm output (0-30 V / 500 mA)
- Real-time 2-wire output and communication
- Versatile power requirements: 5-30 VDC

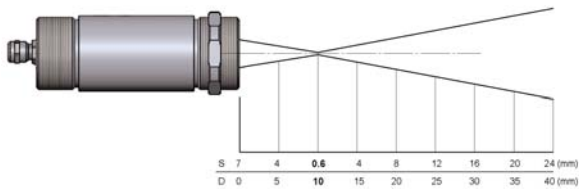
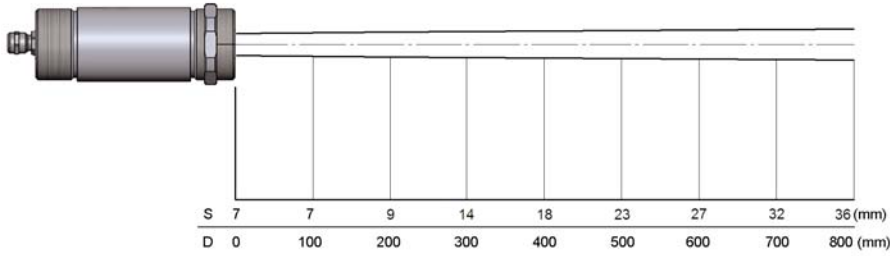
General Specifications	
Environmental rating	IP 65 (NEMA-4)
Ambient temperature	-20 - 75°C
Storage temperature	sensing head: -40 - 85°C
Relative humidity	10-95%, non condensing
Vibration	IEC 68-2-6: 3 G, 11-200 Hz, any axis
Shock	IEC 68-2-27: 50 G, 11ms, any axis
Weight	350 g
Electrical Specifications	
Outputs/analog	4 - 20 mA
Output/Alarm	0-30 V/ 500 mA (open collector)
Outputs/digital (optional)	USB
Loop impedances	max. 1000 Ω <sup>1</sup>
Cable length	8 m
Power supply	5 - 30 V DC

<sup>1</sup> in dependence on supply voltage

Measurement Specifications	
Temperature range (scalable via software)	-30 - 900°C
Spectral range	8 - 14µm
Optical resolution	22:1
CF-Optics (optional)	0.6mm @10 mm
System accuracy (at ambient temperature 23±5°C and object temperature >20°C)	±1% or ±1.4°C <sup>1</sup>
Repeatability (at ambient temperature 23 ±5°C and object temperature >20°C)	±0.5% or ±0.7°C <sup>1</sup>
Temperature resolution	0.1°C
Exposure time (90% signal)	150ms
Emissivity/Amplification (adjustable via software)	0.100 - 1.100
Transmissivity (adjustable via software)	0.100 - 1.000
Signal processing (parameter adjustable only via software)	peak hold, valley hold, average; extended hold function with threshold and hysteresis

<sup>1</sup> whichever is greater

# Optical Specifications



S = Spotsize  
D = Distance

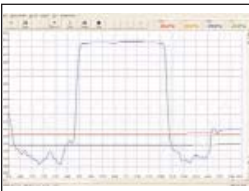
### Dimensions

### Accessories

Air purge collar

CF-lens/Protective window

## PSCconnect Software



- Software for easy sensor setup and remote controlling, supports multi tasking
- Graphic display for temperature trends and automatic data logging for analysis and documentation with 1 ms response time
- Adjustment of signal processing functions and programming of outputs and functional inputs of the sensor
- Automatic emissivity adjustment
- The software PSCconnect allows to customize the sensor to application needs of the user

## PROCESS SENSORS CORPORATION

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