



NS10LT Series

SENTEST.com

Wide temperature range.

Providing professional IR sensors for different applications.



Infrared Thermometer

- Temperature range : 0°C ~ 500°C
- Optical resolution up to 15:1
- 150 ms response time
- 0~5V , Type K or J output
- Power Supply 24VDC
- Environmental rating IP65
- Stainless steel housing
- RS485 (Autonomous agreement / Modbus RTU)



General Specifications

Environmental Rating	IP 65 (NEMA – 4)
Ambient Temperature	0°C to 70°C
Storage Temperature	-20°C to 80°C
Relative Humidity	10 to 95%, non-condensing
Cable Temperature	-20°C to 80°C
Weight	150g (2m cable)

Electrical Specifications

Analog Output	0~5V , Type K or J
Digital Output	RS485 (2-wire)
Protocol	Autonomous agreement / Modbus RTU
Maximum Loop Resistance	10 K Ω
T/C Output Impedance	20 Ω
Power Supply	24 VDC $\pm$ 20%
Current Draw	max. 50 mA
Cable Length	2 m (standard), 5m or 10m

Measurement Specifications

Temperature Range	0°C ~ 500°C (32°F to 932°F)
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Spectral Response	8 ~ 14 μ m
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Optics Resolution (90% energy)	15 : 1
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Accuracy*1	$\pm$ 1% of reading or $\pm$ 1.5°C, whichever is greater
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Repeatability*1	$\pm$ 0.5% of reading or $\pm$ 1°C, whichever is greater
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Response Time (95% signal)	150 ms
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Emissivity	0.100 ~ 1.000 (PC software adjustable) 0.950 Fixed (Type K)
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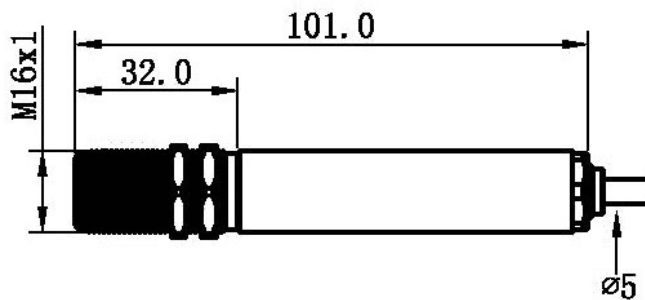
Temperature Resolution	0.1°C
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Signal processing	peak hold, valley hold, average (0~5V , Type J)
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Software	STonline
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*1 At 23°C $\pm$ 5°C, emissivity = 0.95

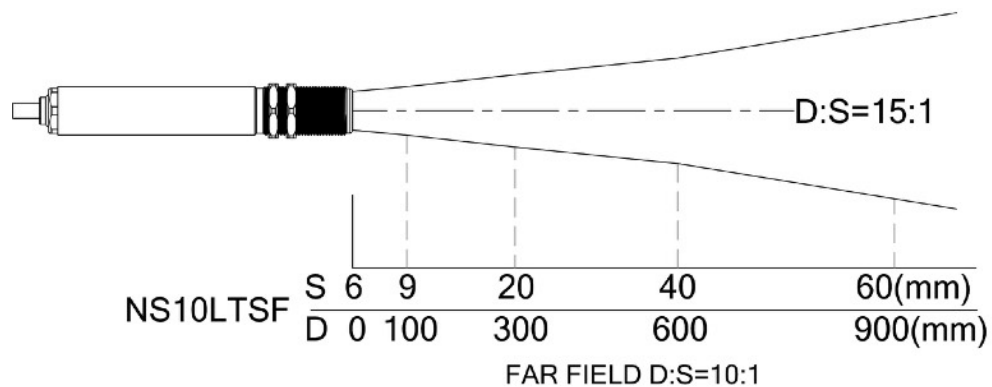
Dimensions(mm)



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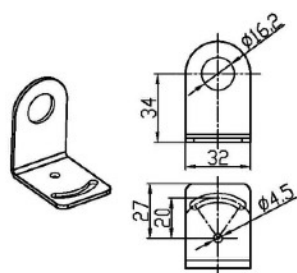


Optical Specifications

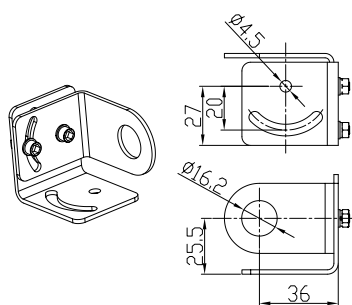


Optional Accessories

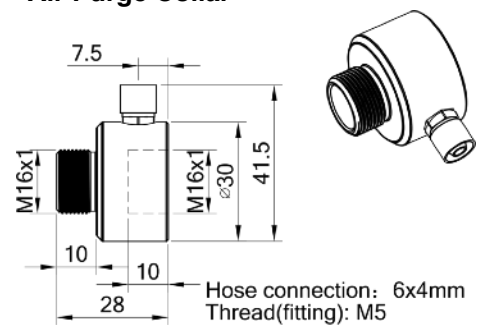
Fixed Bracket



Adjustable Bracket



Air Purge Collar



STonline Software

