

TB-1000-30 Series

Online Infrared Sensors

FEATURES

- 1 Wide Temperature range : 100°C ~ 1600°C
- 2 Superior optical resolution up to 150:1
- 3 Spot sizes down to 2.3 mm
- 4 5 ms response time
- 5 Coaxial Red Laser aiming
- 6 4 ~ 20mA output
- 7 Digital RS485 communications
- 8 Simultaneous analog and digital outputs
- 9 Rugged IP 65 stainless steel housing
- 10 Adjustable signal processing
- 11 STonline Software



SPECIFICATIONS

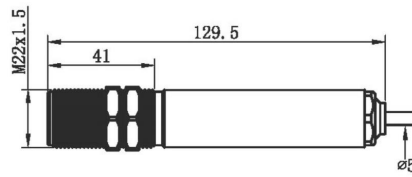
General Specifications		Measurement Specifications	
Environmental Rating	IP 65 (NEMA - 4)	Temperature Range	H1: 600°C ~ 1600°C (1112°F to 2912°F) H2: 300°C ~ 1300°C (572°F to 2372°F) H3: 100°C ~ 600°C (212°F to 1112°F)
Ambient Temperature	0°C to 70°C	Spectral Response	H1: 1µm H2: 1.6µm H3: 2.3µm
Storage Temperature	-20°C to 85°C	Optics Resolution (90% energy)	H1, 150 : 1 H2, 150 : 1 H3, 60 : 1
Relative Humidity	10 to 95%, non-condensing	Accuracy*1	±(0.5% of reading +2°C)
Cable Temperature	-20°C to 80°C	Repeatability*1	±(0.3% of reading +1°C)
Weight	280g (2m cable)	Response Time (95% signal)	5 ms
		Emissivity	0.100 ~ 1.000 (PC Software adjustable)
		Temperature Resolution	0.1°C
		Signal processing	peak hold, valley hold, average
		Software	STonline

Electrical Specifications

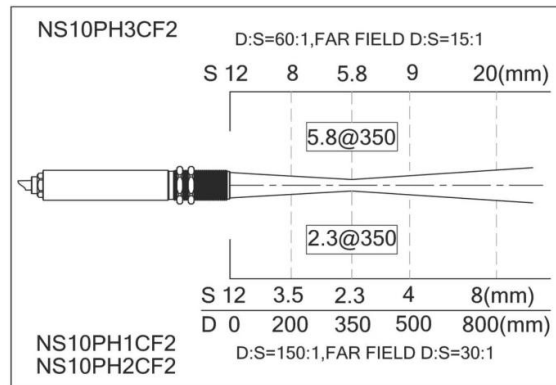
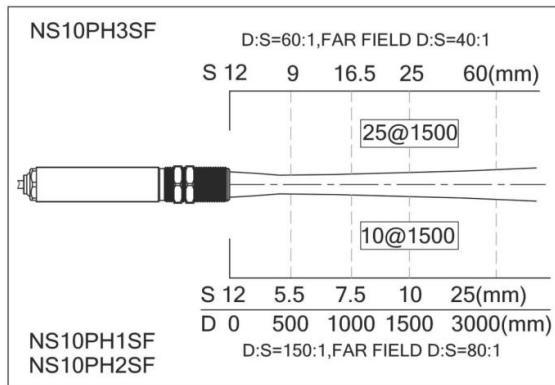
Analog Output	4~20mA
Digital Output	RS485 (2-wire)
Maximum Loop Resistance	500 Ω
Power Supply	24 VDC ± 20%
Current Draw	max. 100 mA
Cable Length	2 m (standard), 5m or 10m

*1 At 23°C ± 5°C, emissivity = 1.00

Dimensions(mm)

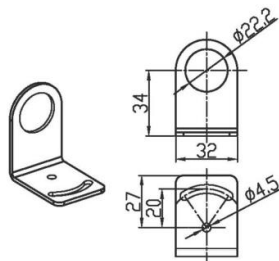


Optical Specifications

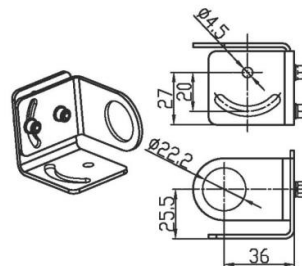


Accessories

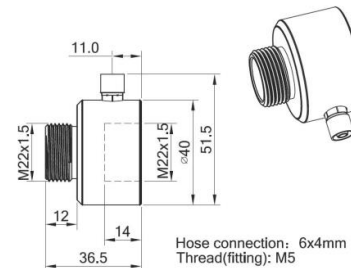
Fixed Bracket



Adjustable Bracket



Air Purge Collar



Please note that we bear no responsibility for loss due to theft or any other reason.

DUE TO CONTINUOUS PRODUCT IMPROVEMENT, THE DESIGN AND TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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