Highlights

- Multiple sensor design (up to 8 heads for 1 box)
- Plug & Play (automatic head detection from the box)
- High temperature resistance for the head up to 180°C without cooling
- Multiple spectral ranges covered by one sensor model
- Extended temperature range for LT head up to 1000°C
- Dedicated 5 µm head for measuring of glass
- Laser sighting for 1M/2M sensing heads
- Spot sizes down to 0,5 mm (with Close Focus Lens)
- Fast 10 ms response time
- Industrial rugged head cable (PUR): Silicone and Halogen free, resistant against oil, bases, and acids
- Networkable OEM head model (without a box)

Raytek Compact Series

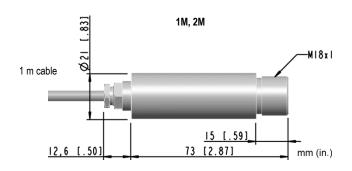
MI3 Heads

Datasheet



Measurement Specifications		General Specifications		
Temperature Range LTS02, LTS10, LTH10 LTS20, LTF, LTH20 G5 2M	-40 to 600°C 0 to 1000°C 250 to 1650°C 250 to 1400°C	Ambient Temperature LT, G5 LTH 1M, 2M Laser (1M, 2M)	-10 to 120°C -10 to 180°C 0 to 120°C automatic switch off at 65°C	
1M 500 to 1800°C Spectral Response LT 8 – 14 μm	Storage Temperature LTH all other models	-20 to 180°C -20 to 120°C		
G5 2M	5 μm 1.6 μm	Environmental Rating	IP65	
Dptical Resolution ¹ LTS (standard)	1 µm 2:1, 10:1, 22:1 typ. (21:1 guaranteed)	Dimensions	EN 61326-1:2006	





Sp

LT	8 – 14 µm
G5	5 µm
2M	1.6 µm
1M	1 um

Op

2.1, 10.1, 22.1 typ. (21.1 guai				. (ZT. Fyuaranieeu)	
	LTH	10:1, 22:1 typ. (21:1 guaranteed)			
	LTF (fast)	10:1			
	G5	10:1			
	1M, 2M	100:1			
	SF1 Optics	2 mm spot	@	200 mm distance	
	SE3 Ontice	22 mm cnot	<u></u>	2200 mm distance	

Accuracy² LT, G5 ±(1% of reading or 1°C) 3,4 1M, 2M \pm (0.5% of reading + 2°C)

Repeatability

LT, G5 $\pm 0.5\%$ of reading or ± 0.5 °C ³ 1M, 2M \pm (0.25% of reading + 1°C)

Temperature Coefficient

LT, G5 $\pm 0,05$ K / K or $\pm 0,05$ % / K of reading³ 1M, 2M ±0,01% / K of reading

Response Time5

Response Time		
LTS (standard), LTH	130 ms	
LTF (fast)	20 ms	
G5	130 ms	
1M, 2M	10 ms	
Emissivity ε	0,100 to 1,100	
Transmission	0.100 to 1.000	

Signal Processing Peak hold, valley hold, adjustable up to 998 s variable averaging filter

 1 90% energy 2 at ambient temperature 23°C \pm 5°C, ϵ = 1.0, and calibration geometry

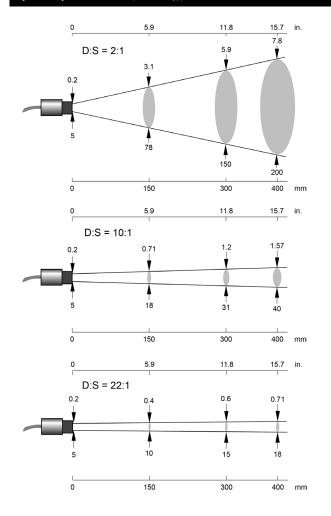
3 whichever is greater 4 ± 2°C for target temperatures < 20°C

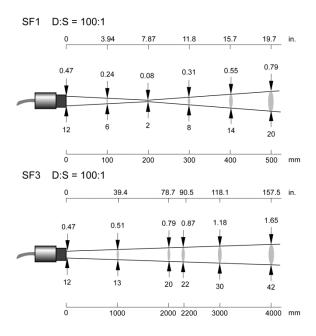






Optical Specifications (90% energy)





Options

Options must be specified at time of order.

- Longer head cable lengths: 3 m, 8 m, 15 m, 30 m
- Water cooled housing (1M, 2M heads)
- Networkable OEM sensing head without the need for a box

Water Cooled Housing (1M, 2M)



Accessories

Accessories include items that may be ordered at any time and added on-site:

- Adjustable Mounting Bracket XXXMIACAB for LT, G5 / XXXMI3100ADJB for 1M, 2M
- Air Cooling Jacket (XXXMIACCJ: 0,8 m, XXXMIACCJ1: 2,8 m) for ambient temperatures up to 200°C (LT, G5 only)

Air Purge Jacket



for LT, G5 heads (XXXMIACAJ)



for 1M, 2M heads (XXXMI3100AP)







