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)

Measurement Specifications		
Temperature Range LTS02, LTS10, LTH10 LTS20, LTF, LTH20 G5 2M 1M	-40 to 600°C 0 to 1000°C 250 to 1650°C 250 to 1400°C 500 to 1800°C	
Spectral Response LT G5 2M 1M	8 – 14 μm 5 μm 1.6 μm 1 μm	
Optical Resolution¹ LTS (standard) LTH LTF (fast) G5 1M, 2M SF1 Optics SF3 Optics	2:1, 10:1, 22:1 typ. (21:1 guaranteed) 10:1, 22:1 typ. (21:1 guaranteed) 10:1 10:1 100:1 2 mm spot @ 200 mm distance 22 mm spot @ 2200 mm distance	
Accuracy ² LT, G5 1M, 2M	±(1% of reading or 1°C) ^{3, 4} ±(0.5% of reading + 2°C)	
Repeatability LT, G5 1M, 2M	±0,5% of reading or ±0,5°C ³ ±(0.25% of reading + 1°C)	
Temperature Coefficient LT, G5 1M, 2M	±0,05K / K or ±0,05% / K of reading³ ±0,01% / K of reading	
Response Time ⁵ LTS (standard), LTH LTF (fast) G5 1M, 2M	130 ms 20 ms 130 ms 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	

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

5 90% value

Raytek Compact Series

MI3 Heads

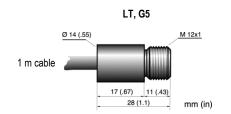
Datasheet

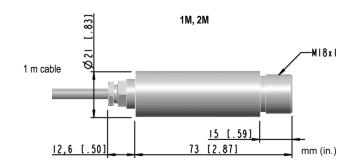


General Specifications	
Ambient Temperature	
LT, G5	-10 to 120°C
LTH	-10 to 180°C
1M, 2M	0 to 120°C
Laser (1M, 2M)	automatic switch off at 65°C
Storage Temperature	
LTH	-20 to 180°C
all other models	-20 to 120°C

LTH all other models	-20 to 180°C -20 to 120°C
Environmental Rating	IP65
EMC	EN 61326-1:2006

Dimensions

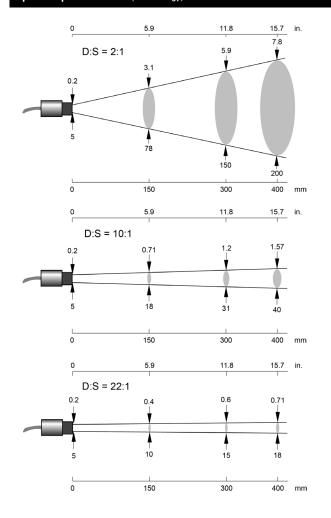


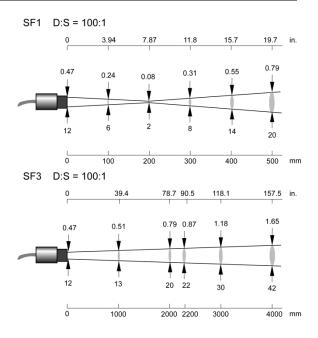




 $^{^1}$ 90% energy 2 at ambient temperature 23°C \pm 5°C, ϵ = 1.0, and calibration geometry

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)

www.raytek.com

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Worldwide Headquarters Santa Cruz, CA USA

Tel: +1 831 458 – 3900 +1 800 227 – 8074 solutions@raytek.com

United Kingdom ukinfo@raytek.com

European Headquarters

Berlin, Germany
Tel: +49 30 47 80 08 0
Fax: +49 30 4 71 02 51
raytek@raytek.de

France info@raytek.fr







