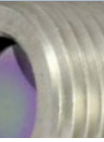
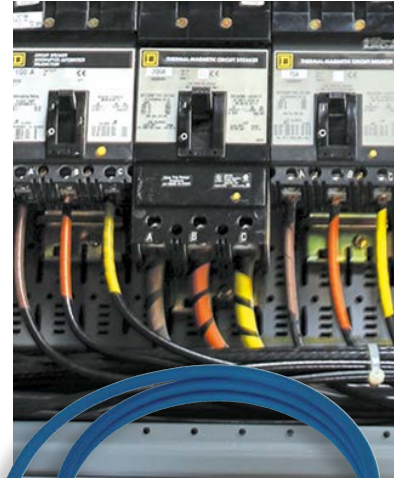


MI3



Noncontact Temperature Measurement for Industrial Applications



Safe Smart Versatile

Fast Measurements

Infrared thermometers measure the energy radiated from an object, without touching it. This measurement technique is important in applications where contact would damage or alter the surface, such as a sheet of plastic film; or contaminate the product, such as food processing.

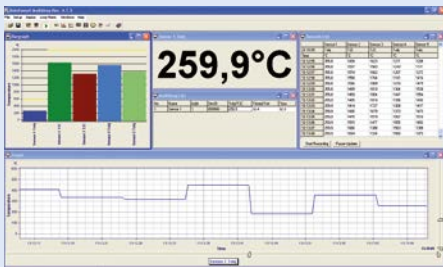
Unlike contact sensors, there is no delay while the infrared thermometer reaches the correct temperature. This makes it ideal for measuring moving or discrete processes. The result is fast, accurate noncontact temperature measurement and tighter control of your process.

Standard Features MI3

- Extended temperature range up to 1650 °C (3002 °F)
- Optical resolution up to 22:1
- Dedicated close focus lens for spot sizes down to 0.5 mm (0.02 in)
- Short response time down to 20 ms
- Industrial rugged cable: Silicone and Halogen free, resistant against oil, bases, and acids
- USB 2.0 interface as standard and selectable field busses
- Ambient temperatures up to 180 °C (356 °F) without the need for costly cooling

Process Software

More MI3 features are available with the USB or optional RS485 communications and the DataTemp® MultiDrop Software including remote control and monitoring of all sensor variables, an 8-position “recipe” table that can be easily interfaced to an external control system, and even external inputs for analog emissivity adjustment or reflected energy compensation.



Plot temperature values of multiple sensors simultaneously. High and low alarms are shown, making it easy to identify an out-of-range condition.

MI3 Series – Smart and Innovative

Most IR temperature sensors on the market transfer measurements from the sensing head to the electronics as interference-prone analog signals in a very sensitive μV range, the MI3 models allow calibrated, digital temperature output directly from each sensor head.

Models	
MI3*	MI3100*
Temperature Range	
-40 to 1650 °C (-40 to 3002 °F)	250 to 1800 °C (482 to 3272 °F)
Response Time	
20 ms 130 ms	10 ms
Optics	
22:1 10:1 2:1	100:1
Spectral Range	
5 μm 8-14 μm	1 μm 1.6 μm
Accuracy	
1% or 1 °C (2 °F)	0.5% + 2 °C
Outputs	
0-5/10 V 0/4-20 mA, J, K, R, S** Alarm, USB, RS485, Profibus, Modbus, Ethernet, Profinet Galvanically isolated analog outputs	0-5/10 V 0/4-20 mA, J, K, R, S** Alarm, USB, RS485, Profibus, Modbus, Ethernet, Profinet Galvanically isolated analog outputs

* Explosion proof sensing heads available (option)

** Thermocouple type

MI3 – The World’s Smallest Stand-alone Pyrometer

The Raytek® MI3 is a rugged, IP65 stainless steel miniature pyrometer with integrated electronics that can measure a wide range of temperatures. Just 14 mm (0.55 in) in diameter and



28 mm (1.1 in) long, the single piece OEM version is the smallest fully functional, stand-alone infrared temperature sensor for fixed installation on the market today. Designed for a wide range of applications, the sensor is housed in a rugged stainless steel enclosure to ensure long term performance, even in harsh industrial environments with ambient temperatures up to 180 °C (356 °F) without cooling. Cooling accessories not only add installation costs, they can leak and contaminate products, or condensation produced by cooling can obscure the sensor’s field of view and interfere with measurement accuracy.

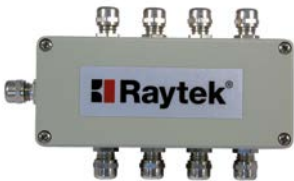


For use with standard industrial outputs, the MI3 sensor comes with the separate **communication box MI3COMM**, which provides all the functionality of the proven MI series sensors with numerous exciting new features.

The **multi-channel MI3MCOMM communication box** for multiple sensing head applications with USB interface as standard and a wide range of network communication interfaces is available in a convenient **DIN-rail mountable** package.



4 sensing heads can be directly connected to the MI3MCOMM box.



Multi-channel sensor interface box for connecting up to **8 individually addressable heads** to the communication box.

The **OEMMI3 version** of all MI3 sensor models allows direct digital connection to the host machine controller. No communication box is required. This is ideal for high volume OEM applications requiring MI3 performance with the best possible value and minimum installation costs.

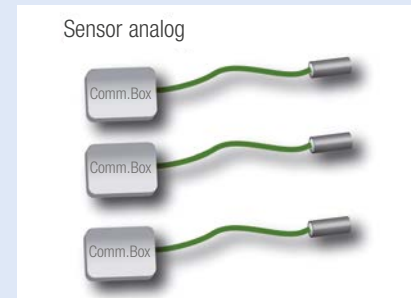


Highlights: MI3 Series

- Lowest installation costs per measurement point due to multiple sensing head system design
- Self diagnostic features: break of a head wire, head internal temperature
- Plug & Play exchangeability for sensing heads (no heads parameter anymore; Raytek patent)
- Robust EMI immunity due to digital head-to-box communication
- No cable bending/moving effects, allowing continuous reliable measurement in moving installations (robotic arms, linear drives, chains, etc.)
- Optional network communication interfaces: RS485, Profibus, Modbus®, Ethernet, Profinet
- 64 MB data logger for communication boxes with Ethernet
- Optional 4 analog outputs with galvanic isolation
- OEM version allows direct digital communication with the host machine controller without the need for an additional communication box



Multiple sensing head design of the digital MI3 saves installation costs.



Conventional analog sensors require one box for one sensing head.

MI3100 High Temperature Sensor

The MI3100 high temperature sensing head represents a further extension of performance and innovation in continuous noncontact temperature monitoring for specific OEM applications and high temperature manufacturing processes. The short wavelength sensor delivers more accurate measurements vs. long-wavelength units in case of emissivity changes (for example: metals, ceramics).

The MI3100 is a rugged, IP65 stainless steel sensing head to handle many applications in a wide temperature range.

The compact MI3100 sensing head with integrated laser sighting.



Highlights: MI3100

- Wide temperature range up to 1800 °C (3272 °F)
- Laser sighting
- 100:1 optical resolutions
- Spectral models 1 μm/1.6 μm
- Ambient temperatures to 120 °C (248 °F) without cooling

MI3 Ex-Proof Sensors

Explosive atmospheres at the workplace can be caused by flammable gases, mists or vapors, or by combustible dust. Explosions can cause loss of life and serious injuries, as well as significant damage. If you are working in this hazardous environment and need instruments with special certification, Raytek MI3 ATEX/IECEX certified sensors can be used safely to monitor the right temperature of your process. All standard MI3 and MI3100 heads can be ordered with optional ATEX/IECEX certification. Raytek MI3 ATEX/IECEX products provides you with a broad variety of sensors for your application.



Monitoring edge temperature and drying uniformity for paper production results in higher yields and reduced downtime.



Intrinsically safe infrared sensors for temperature measurement and monitoring in hazardous areas.



From paint curing to thermoforming, noncontact temperature measurement provides consistent product quality in the automotive industry.

Highlights: MI3 Ex-Proof

- ATEX and IECEx-proof for dust and gas atmospheres
- Same feature set as standard models
- Field exchangeability of all components without the need for re-calibration
- One Ex-proof power supply can be used with 2 sensing heads (saves installation cost)

Our Service Ensures Long Use

We have over 50 years of experience in infrared temperature measurement. Our application specialists are located around the world to help answer your technical questions. The MI3 Series is supported by a 2 year warranty. In addition, maintenance, training, calibration, and other customized services are available to ensure that you receive the maximum benefits from your Raytek infrared noncontact thermometer. For more information on our solutions, contact our application specialist today!

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Worldwide Service

Fluke Process Instruments offers services, including repair and calibration. For more information, contact your local office.

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12/2018 3783599F1

Highlights

- Multiple sensor design (up to 8 sensing heads for 1 box)
- Plug & Play (automatic head detection)
- Rugged IP rated metal box or fast mountable DIN rail box
- All boxes support all MI3 spectral models
- Failsafe functions (internal temp., break of head cable)
- Isolated alarm relay output
- User configurable inputs for remote sensor configuration
- Analog outputs with galvanic isolation
- USB 2.0 interface as standard
- Optional serial RS485 communication interface with the protocols: ASCII, Profibus, Modbus®
- Optional Ethernet communication interface with the protocols: ASCII, http, Profinet IO
- Intuitive user interface with high resolution LCD display
- Advanced on-board signal processing like: peak & valley hold, intelligent averaging (flicker)
- DataTemp® Multidrop Software for remote monitoring

Measurement Specifications

Accuracy

mA / V output	±1°C
Thermocouple output	±1.5°C

Temperature Resolution

mA/V output	±0.1°C (±0.2°F) ¹ / 12 bit (metal box, MI3COMM)
mA/V output	±0.02°C (±0.04°F) / 16 bit (analog DIN rail box)

Temperature Coefficient

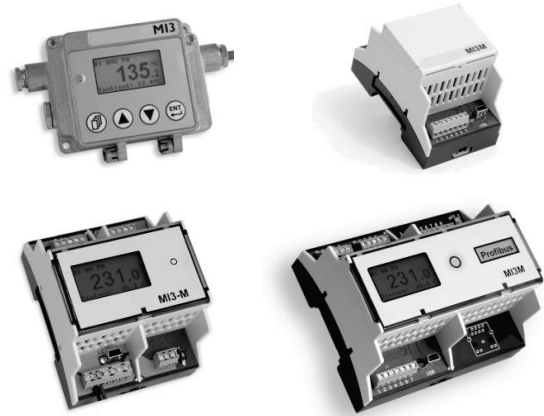
mA/V output	± 0.02 K / K
Thermocouple output	± 0.05 K / K

¹ for a zoomed temperature span of < 500°C (932°F)

Interfaces

Outputs	4 – 20 mA, 0 – 20 mA, 0 – 5 V, or 0 – 10 V J, K, R, or S thermocouple, 0 – 5 V head ambient signal
Thermocouple	J: -40 to 600°C (-40 to 1112°F) K: -40 to 800°C (-40 to 1472°F) R/S: 250 to 1800°C (482 to 3272°F)
Relay	48 V / 300 mA (solid-state relay, potential-free)
Inputs (1 - 3)	1. Emissivity ε setting (analog, 0 - 5 V _{DC}) 2. Background radiation compensation (analog, 0 - 5 V _{DC}) 3. Trigger/hold or laser switching (digital, high/low) or digital emissivity control via inputs 1 to 3
Communications	USB 2.0 RS485 Profibus DP-V0 Profinet IO Ethernet TCP/IP, http and 64 MB data logger Modbus RTU

MI3 Box Datasheet



General Specifications

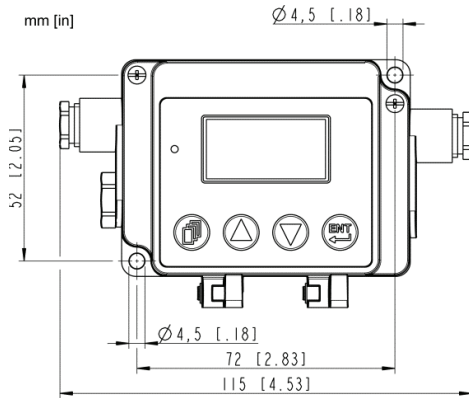
Power Supply	8 to 32 VDC, 5 W
Ambient Temperature	-10 to 65°C (14 to 149°F)
Storage Temperature	-20 to 85°C (-4 to 185°F)
Environmental	IP65 / NEMA-4 (MI3COMM only)
EMC	EN 61326-1:2006
Material	die cast zinc (MI3COMM) molded plastic (all other boxes)

Comm Box	MI3COMM...	MI3MCOMM DIN 3TE	MI3MCOMM DIN 4TE	MI3MCOMM... DIN 6TE
Firmware	8 heads	8 heads	8 heads	8 heads
Wiring	1 head	4 heads	4 heads	4 heads
Display, Button	✓	–	✓	✓
Outputs:				
mA / V	✓	–	–	4x (optional)
TC	✓	–	–	–
Relay	✓	✓	✓	✓
Inputs:				
ε – analog	✓	–	–	–
ε – digital	✓	–	–	–
T _{Background}	✓	–	–	–
Trigger/Hold	✓	✓	✓	✓
Laser Switch	✓	✓	✓	✓
Interfaces:				
USB	standard	standard	standard	standard
RS485	optional	–	standard	–
Profibus	optional	–	–	optional
Profinet	optional	–	–	optional
Ethernet	optional	–	–	optional
Modbus	optional	–	–	optional

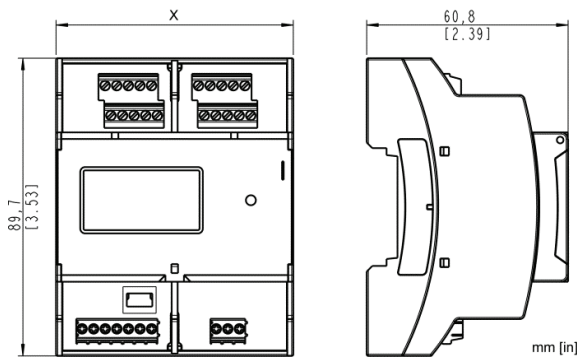
Dimensions

Metal Box (MI3COMM)

Height: 31.5 (1.2)



DIN Rail Box (MI3COMM...)



Width	MI3COMMN	MI3COMM	MI3COMM...
X	DIN 3TE: 53.6 mm (2.1 in)	DIN 4TE: 71.6 mm (2.8 in)	DIN 6TE: 107.6 mm (4.2 in)

Options

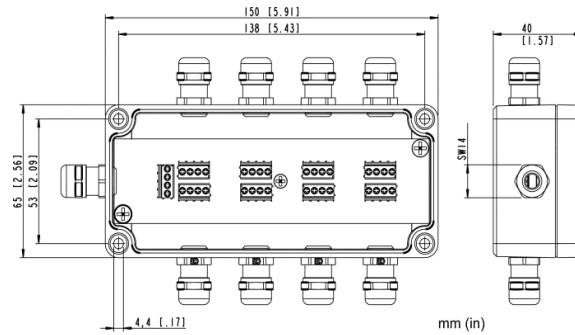
Options must be specified at time of order.

- Fieldbuses for Comm Box:
RS485, Profibus, Profinet, Ethernet, Modbus
- 4 analog output channels for Comm Box, DIN 6TE:
mA or V, all channels electrically isolated

Accessories

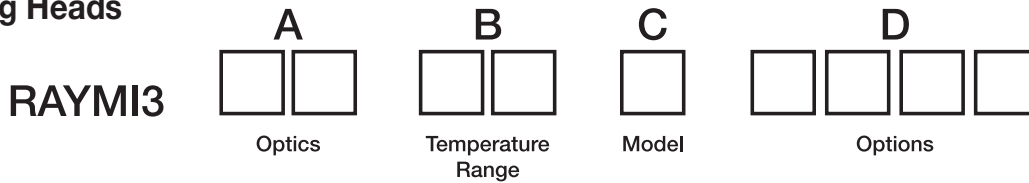
Accessories include items that may be ordered at any time and added on-site:

- Multi-Channel Box to support up to 8 sensing heads in a network (XXXMI3CONNBOX)
- USB/RS485 Adapter for boxes with RS485 interface (XXXUSB485)



Multi-Channel Box (XXXMI3CONNBOX)

Sensing Heads



Each MI3 sensor system is comprised of (1) MI3 sensing head and (1) MI3COMM or MI3MCOMM communication module. The sensing head includes one mounting nut and 1m (3.3ft) cable. Longer cables up to 30 m (100ft) maximum are available and must be specified at time of order. The MI3 sensing head and MI3COMM box are ordered as separate items.

Model	Description
RAYMI3	Miniature infrared sensing head with 1 meter (3.3ft) cable
Code A	Optical Resolution
02	2:1
10	10:1
Code B	Temperature Range
LT	-40°C to 600°C (-40°F to 1112°F) Note: 0°C to 1000°C (32°F to 1832°F) for LTF and LTS 22:1 models
G5	250°C to 1650°C (482°F to 3002°F)
Code C	Model
S	Standard sensing head, 120°C (248°F) maximum ambient
F	Fast response sensing head, 20 mSec response time, 120°C (248°F) maximum ambient (10:1 head only)
H	High ambient sensing head, up to 180°C (356°F)
Code D	Options
CB3	3m (10ft) cable
CB8	8m (26ft) cable
CB15	15m (49ft) cable
CB30	30m (98ft) cable

Communication Boxes

Model	Description
RAYMI3COMM	MI3 IR thermometer communication box with USB 2.0 communications, cast zinc housing and user-interface
RAYMI3COMM4	MI3 IR thermometer communication box with USB 2.0 communications and RS-485 communication option, cast zinc housing and user-interface
RAYMI3COMMM	MI3 IR thermometer communication box with USB 2.0 communications and Modbus communication option, cast zinc housing and user-interface
RAYMI3COMMP	MI3 IR thermometer communication box with USB 2.0 communications and Profibus communication option, cast zinc housing and user-interface
RAYMI3MCOMM	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and RS485 communications
RAYMI3MCOMMM	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Modbus communications
RAYMI3MCOMMP	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Profibus communications
RAYMI3MCOMMN	Modular DIN mountable 4-channel IR communication box with no user interface, display or RS485 interfaceIncludes USB 2.0 and alarm relay, only
RAYMI3MCOMMA	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and 4 galvanic isolated analog outputs
RAYMI3COMME	MI3 IR thermometer communication box with USB 2.0 communications and Ethernet communication and built in HTTP-Server option, cast zinc housing and user-interface
RAYMI3COMMPN	MI3 IR thermometer communication box with USB 2.0 communications and Profinet communication, cast zinc housing and user-interface
RAYMI3MCOMME	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Ethernet interface with built-in HTTP-Server.
RAYMI3MCOMMPN	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Profinet interface.

The Worldwide Leader in Noncontact Temperature Measurement

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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 (356°F) without cooling
- Multiple spectral ranges covered by one sensor model
- Extended temperature range for LT head up to 1000°C (1832°F)
- Dedicated 5 µm head for measuring of glass
- Laser sighting for 1M/2M sensing heads
- Spot sizes down to 0.5 mm (0.02 in) 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)
- Intrinsically safe sensing heads with dedicated Ex-power supply

Measurement Specifications

Temperature Range	
LTS02, LTS10, LTH10	-40 to 600°C (-40 to 1112°F)
LTS20, LTF, LTH20	0 to 1000°C (32 to 1832°F)
G5	250 to 1650°C (482 to 3002°F)
2M	250 to 1400°C (482 to 2552°F)
1M	500 to 1800°C (932 to 3272°F)
Spectral Response	
LT	8 – 14 µm
G5	5 µm
2M	1.6 µm
1M	1 µm
Optical Resolution¹	
LTS (standard)	2:1, 10:1, 22:1 typ. (21:1 guaranteed)
LTH	10:1, 22:1 typ. (21:1 guaranteed)
LTF (fast)	10:1
G5	10:1
1M, 2M	100:1
Accuracy²	
LT, G5	± (1% of reading or 1°C) ^{3,4}
1M, 2M	± (0.5% of reading + 2°C)
Repeatability	
LT, G5	± 0.5% of reading or ± 0.5°C ³
1M, 2M	± (0.25% of reading + 1°C)
Temperature Coefficient	
LT, G5	± 0.05 K / K or ± 0.05% / K of reading ³
1M, 2M	± 0.01% / K of reading
Response Time⁵	
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 ± 5°C (73°F ± 9°F), ε = 1.0, and calibration geometry

³ whichever is greater

⁴ ± 2°C (± 4°F) for target temperatures < 20°C (68°F)

⁵ 90% value

MI3 Heads

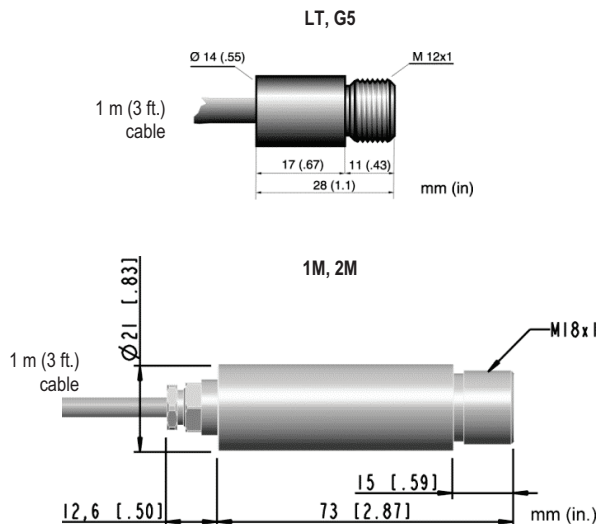
Datasheet



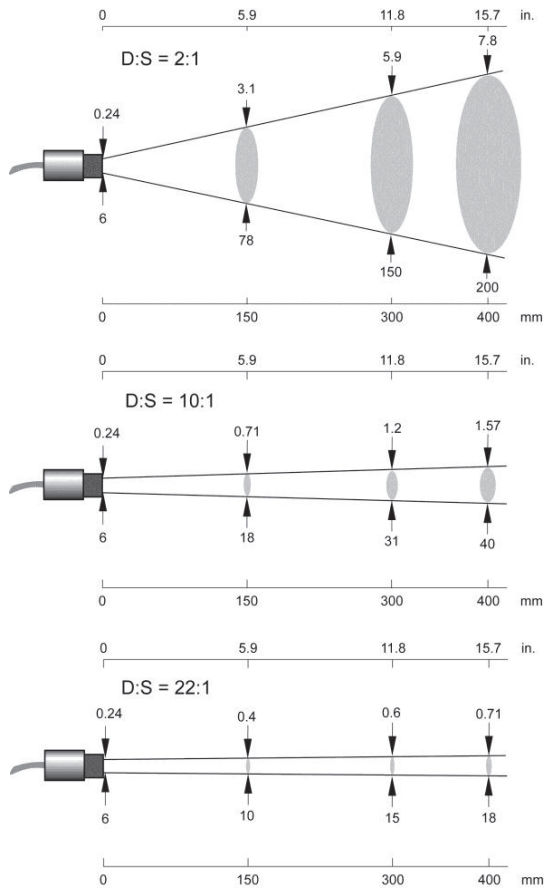
General Specifications

Ambient Temperature	
LT, G5	-10 to 120°C (14 to 248°F)
LTH	-10 to 180°C (14 to 356°F)
1M, 2M	0 to 120°C (32 to 248°F)
Laser (1M, 2M)	automatic switch off at 65°C (149°F)
Storage Temperature	
LTH	-20 to 180°C (-4 to 356°F)
all other models	-20 to 120°C (-4 to 248°F)
Environmental Rating	
	IP65 (NEMA-4)
EMC	
	EN 61326-1:2006

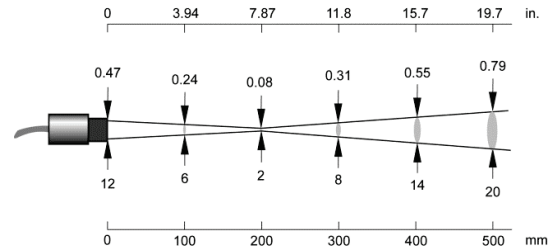
Dimensions



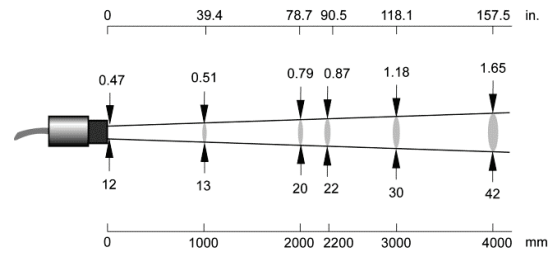
Optical Specifications (90% energy)



SF1 D:S = 100:1



SF3 D:S = 100:1



Intrinsic Safety

Intrinsically safe sensing heads (MI3...IS):

- II 2G Ex ib IIC T4 Gb (gas)
- II 2D Ex ib IIC T135°C Db (dust)

Ex Power supply (MI3ACIS):

- II (2)G [Ex ib Gb] IIB (gas)
- II (2)D [Ex ib Db] IIC (dust)

Accessories

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

- Adjustable Bracket (LT, G5: XXXMIACAB / 1M, 2M: XXXMI3100ADJB)
- Fixed Bracket (LT, G5: XXXMIACFB / 1M, 2M: XXXMI3100FB)
- Isolation Kit for Fixed Bracket (1M, 2M: XXXMI3100ISOKIT)
- Air Purge (LT, G5: XXXMIACAJ / 1M, 2M: XXXMI3100AP)
- Air Cooling Jacket (XXXMIACCJ: 0.8 m/2.6 ft, XXXMIACCJ1: 2.8 m/9.2 ft) for ambient temperatures up to 200°C/392°F (LT, G5 only)
- Close Focus Lens (LT, G5: XXXMI3ACCFL)
- Protective Window (LT, G5: XXXMIACPW / 1M, 2M: XXXMI3100PW)

Air Purge Jacket



for LT, G5 heads
(XXXMIACAJ)



for 1M, 2M heads
(XXXMI3100AP)

Options

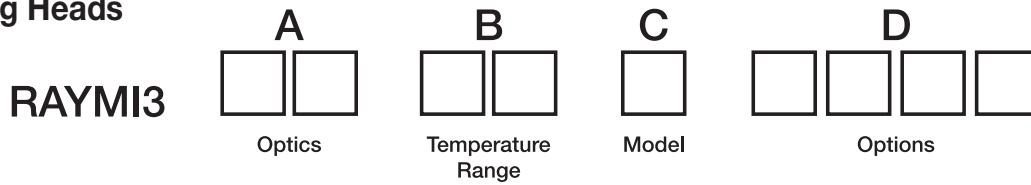
Options must be specified at time of order.

- Longer head cable lengths: 3 m, 8 m, 15 m, 30 m (9.8, 26, 49, 98 ft.)
- Water cooled housing (1M, 2M heads)
- Networkable OEM sensing head without the need for a box

Water Cooled Housing (1M, 2M)



Sensing Heads



Each MI3 sensor system is comprised of (1) MI3 sensing head and (1) MI3COMM or MI3MCOMM communication module. The sensing head includes one mounting nut and 1m (3.3ft) cable. Longer cables up to 30 m (100ft) maximum are available and must be specified at time of order. The MI3 sensing head and MI3COMM box are ordered as separate items.

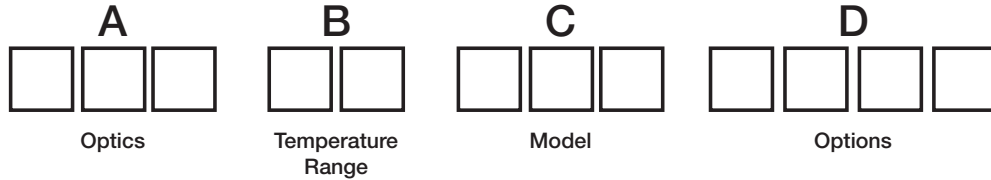
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Code C	Model
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F	Fast response sensing head, 20 mSec response time, 120°C (248°F) maximum ambient (10:1 head only)
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Code D	Options
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CB8	8m (26ft) cable
CB15	15m (49ft) cable
CB30	30m (98ft) cable

Communication Boxes

Model	Description
RAYMI3COMM	MI3 IR thermometer communication box with USB 2.0 communications, cast zinc housing and user-interface
RAYMI3COMM4	MI3 IR thermometer communication box with USB 2.0 communications and RS-485 communication option, cast zinc housing and user-interface
RAYMI3COMM	MI3 IR thermometer communication box with USB 2.0 communications and Modbus communication option, cast zinc housing and user-interface
RAYMI3COMMP	MI3 IR thermometer communication box with USB 2.0 communications and Profibus communication option, cast zinc housing and user-interface
RAYMI3MCOMM	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and RS485 communications
RAYMI3MCOMM	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Modbus communications
RAYMI3MCOMMP	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Profibus communications
RAYMI3MCOMMN	Modular DIN mountable 4-channel IR communication box with no user interface, display or RS485 interfaceIncludes USB 2.0 and alarm relay, only
RAYMI3MCOMMA	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and 4 galvanic isolated analog outputs
RAYMI3COMME	MI3 IR thermometer communication box with USB 2.0 communications and Ethernet communication and built in HTTP-Server option, cast zinc housing and user-interface
RAYMI3COMMPN	MI3 IR thermometer communication box with USB 2.0 communications and Profinet communication, cast zinc housing and user-interface
RAYMI3COMME	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Ethernet interface with built-in HTTP-Server.
RAYMI3COMMPN	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Profinet interface.

Sensing Heads

RAYMI3



Each MI3 sensor system is comprised of (1) MI3 sensing head and (1) MI3COMM or MI3MCOMM communication module. The sensing head includes one mounting nut and 1m (3.3ft) cable. Longer cables up to 15m (50ft) maximum are available and must be specified at time of order. The MI3 sensing head and MI3COMM box are ordered as separate items.

Model	Description
RAYMI3	Miniature infrared sensing head with 1m (3.3ft) cable
Code A	Optical Resolution
100	100:1
Code B	Temperature Range
1M	500°C to 1800°C (932°F to 3272°F)
2M	250°C to 1400°C (482°F to 2552°F)
Code C	Optical Focus
SF1	200mm focus distance
SF3	2,200mm focus distance
Code D	Options
CB3	3m (10ft) cable
CB8	8m (26ft) cable
CB15	15m (50ft) cable

Communication Boxes

Model	Description
RAYMI3COMM	MI3 IR thermometer communication box with USB 2.0 communications, cast zinc housing and user-interface
RAYMI3COMM4	MI3 IR thermometer communication box with USB 2.0 communications and RS-485 communication option, cast zinc housing and user-interface
RAYMI3COMM	MI3 IR thermometer communication box with USB 2.0 communications and Modbus communication option, cast zinc housing and user-interface
RAYMI3COMM	MI3 IR thermometer communication box with USB 2.0 communications and Profibus communication option, cast zinc housing and user-interface
RAYMI3MCOMM	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and RS485 communications
RAYMI3MCOMM	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Modbus communications
RAYMI3MCOMM	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Profibus communications
RAYMI3MCOMM	Modular DIN mountable 4-channel IR communication box with no user interface, display or RS485 interfaceIncludes USB 2.0 and alarm relay, only
RAYMI3MCOMM	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and 4 galvanic isolated analog outputs
RAYMI3COMME	MI3 IR thermometer communication box with USB 2.0 communications and Ethernet communication and built in HTTP-Server option, cast zinc housing and user-interface
RAYMI3COMM	MI3 IR thermometer communication box with USB 2.0 communications and Profinet communication, cast zinc housing and user-interface
RAYMI3COMME	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Ethernet interface with built-in HTTP-Server.
RAYMI3COMM	Modular DIN mountable 4-channel IR communication box with user interface, USB 2.0 and Profinet interface.

The Worldwide Leader in Noncontact Temperature Measurement

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