Highlights

- Multiple temperature and spectral ranges
- Local user-interface for sensor programming
- User-selectable 0/4-20 mA, 0-5 V, J or K thermocouple output
- User-scalable 0/4-20 mA or 0-5 V output
- Simultaneous analog and digital RS485 outputs
- Choice of terminal wiring or DIN connector wiring
- Laser sighting for high resolution optics (LTH models)
- Optional stainless steel housing
- Field Calibration software







Electrical Specifications				
Outputs Analog	4-20 mA, 0-20 mA, 0-5V, J or K thermocouple (with terminal connector)			
Digital Alarm	RS485 (bidirectional) opto-coupled contact closure			
Inputs	Emissivity setting, background radiation compensation, trigger, laser control			
Power Supply	24 VDC ±20%, 100 mA			

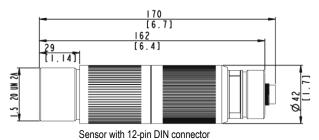
General Specification	IS	
Environmental Rating	IP65 (IEC529), with DIN connector only	
Ambient Temperature		
without cooling	0 to 70°C	
with air cooling	120°C	
with water cooling	175°C	
with ThermoJacket	315°C	
with laser	40°C	
Storage Temperature	-20 to 70°C	
Relative Humidity	10 to 95%, non-condensing	
Shock	IEC 68-2-27, 50 G, 11 ms, 3 axis	
Vibration	IEC 68-2-6, 3 G, 11 – 200 Hz, 3 axis	
Dimension	192 mm L x 42 mm diameter	
with cooling jacket	192 mm L x 63 mm diameter	
Weight	585 g	
with cooling jacket	675 g	

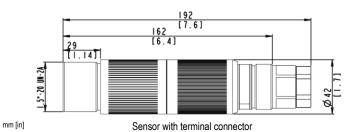
Measurement Specifications				
Temperature/Spectral Range	s			
LT/LTHSF (Low Temp.)	-40 to 600°C	8 to 14 µm		
MT (Medium Temp.)	250 to 1200°C	3,9 µm		
G5 (Glass)	250 to 1650°C	5,0 µm		
P7 (Plastic)	10 to 350°C	7,9 µm		
Optical Resolution ¹				
LTHSF	50 : 1			
LT, G5	33:1			
MT, P7	30 : 1			
System Accuracy	±1% or ±1,0°C ^{2, 3}			
Repeatability	±0,5% or ±0,5°C ^{3,4}			
Temperature Resolution				
P7	1,0°C			
all other models	0,5°C			
Response Time (95%)				
all models	150 ms			
Emissivity	adjustable: 0,100 to 1,100			
Signal Processing	°C/°F, Min, Max, Average, advanced hold, ambient background temperature compensation			
1 000/ second standard feature action				

^{1 90%} energy, standard focus optics

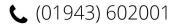
Sensor and Fixed Bracket

Each sensor comes with a fixed bracket, a mounting nut, a software CD and an operator's manual.













² at ambient temperature 23°C ± 5°C ³ whichever is greater

⁴ LT: for target temperature > 25°C @ ambient temperature of 23°C; P7: for target temperature > 95°C

Options

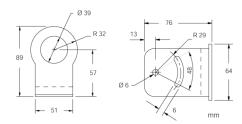
Options must be specified at time of order.

Manufacturer's calibration certificate based on NIST/DKD probes (XXXXRCERT)

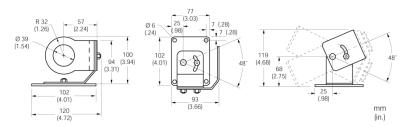
Accessories

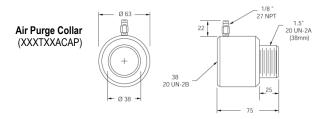
- RS232/485 converter serving for stand-alone or multiple sensors (RAYMINCONV2)
- Protective Windows according to spectral range (XXXTXACTW...)
- Cable extensions in different lengths
- Water/Air Cooled Housing for field retrofit as stainless steel (XXXXRACWCS) or aluminium (XXXXRACWCA)
- ThermoJacket: extra rugged cast metal housing for thermal/mechanical environmental protection (RAYTXXTJ5)

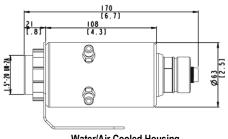




Adjustable Bracket (XXXTXXACAB)

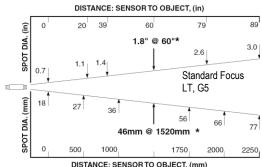




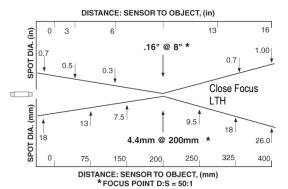


Water/Air Cooled Housing (sensor with 12-pin quick connector)

Optical Specifications

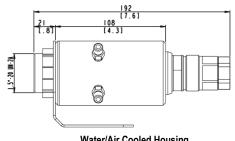


DISTANCE: SENSOR TO OBJECT, (mm)
*FOCUS POINT D:S = 33:1 FAR FIELD D:S = 30:1

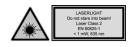


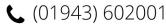
DISTANCE: SENSOR TO OBJECT, (in) 79 Ē DIA. 2" @ 60" * 2.8 SPOT 0.7 Standard Focus MT, P7 DIA. (mm) 18 28 28.1 72.4 51mm @ 1520mm * SPOT 2000

DISTANCE: SENSOR TO OBJECT, (mm)
*FOCUS POINT D:S = 30:1 FAR FIELD D:S = 27:1 * D:S for the focus point 90% energy



Water/Air Cooled Housing (sensor with terminal connector)





mm [in]