



novasens Infrared Sensor IR502GAC

At a glance

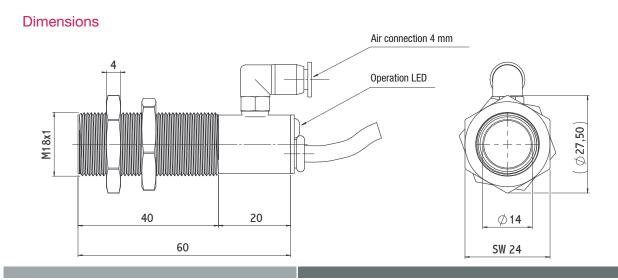
- Robust sensor for use in very hot or dirty environments
- Connection for compressed air supply for air cooling and lens cleaning
- Detection of small measurement spots over large measuring distances
- Quality, moisture-resistant germanium optics
- 3 m sensor cable, extendable up to 40 m
- Compact design

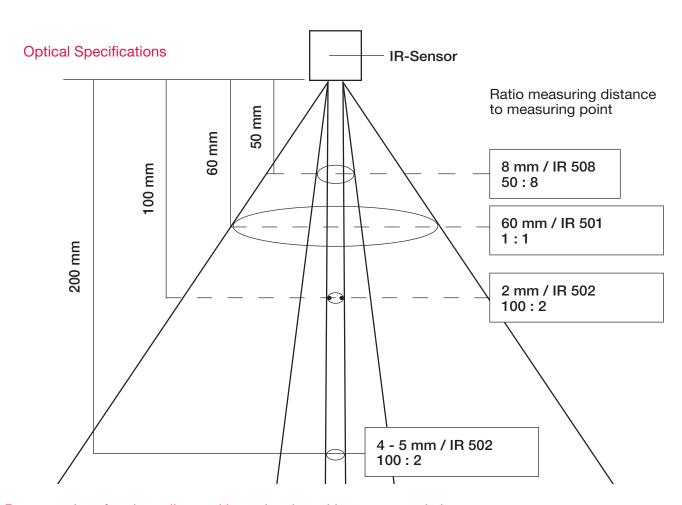


Specifications Specification Speci			
Measuring range / Field of application	-40°C to +1000°C Temperature Measurement System novasens 2050 0-250 % Hotmelt Control System novasens 2000		
Spectral range	8-14 µm		
Emissivity correction	1,0 to 0,1 adjustable on controller		
Dimensons	Length 62 mm x 18 mm diameter with M1 8 x 1 thread		
Permissible moisture	95% not condensing		
Permissible ambient temperature	-20°C to +170°C		
Distance to measuring spot	100 mm : 2 mm		
Accuracy	+/- 1% of reading		
Repeat accuracy	0,5°C (0-100°C), 1,0°C (over 100°C)		
Reaction time	60 ms		
Resolution	1/10°C		
Outputs	0-20 mA, 4-20 mA, 0-10VDC selectable on controller		
Weight	190 Grams (sensing head with 3 m cable including plugs)		
Protection class	IP64		
Delivery scope	Sensing head with 3 m cable including plugs and mounting screws, with air filter F110		
Conformity	RoHS-conformity		
Model	0200236		

The sensor works as a part with the complete Infrared Temperature Measurement System novasens 2050 or the Hotmelt Control System novasens 2000.







Pressure chart for air cooling and lens cleaning with compressed air

Pressure (bar)	Ambient temperature in ° C	Pressure (bar)	Ambient temperature in ° C
0,0	up to 50°C	1,0	105°C
0,1	above 50°C	1,2	120°C
0,2	60°C	1,4	140°C
0,3	70°C	1,7	150°C
0,7	90°C	2,0	170°C



sensortechnik

www.novasens.de

Variants and Options

IR502G



Detection of small measurement spots over large measuring distances. Distance / spotsize = 100 mm/ 2 mm Quality, moisture-resistant germanium optics

ArtNr. 0200231

IR502GACV40



Very robust sensor for use in very hot or dirty environments. Air cooling and lens cleaning by compressed air. 40 mm additional tube against contamination and interference

ArtNr. 0200241

IR508G



Data as IR502G Distance / spot 50:8 Example: measuring distance 50 mm = 8 mm spot size

ArtNr. 0200209

Water cooled sensor housing



For use in very hot ambient temperatures, or directly on a heat source. Attachment with rotatable

T-piece for water supply, screw for all sensing heads

ArtNr. 0200239

Sensor cable extension



Including plugs, per meter

Air filter F110



Replacement air filter F110 for all novasens sensors with air cooling and lens cleaning with compressed air

ArtNr. 0200215

IR502GS/IR508GS



Data as IR502G/IR508G, with faster response time of 5 ms

ArtNr. 0200232

IR502GW

ArtNr. 0200225



Side cable output for sensors IR502G and IR508G, for use in confined areas.

ArtNr. 0200237

Specifications are subject to change.

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