



novasens Infrared Sensor IR501AC

At a glance

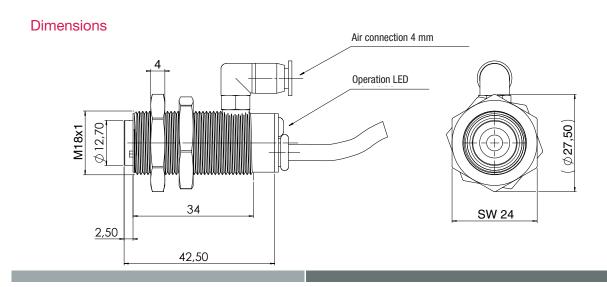
- Detection of larger measuring areas by the ratio distance / spot size 1:1
- Connection for compressed air supply for air cooling and lens cleaning
- · Robust and inured sensor housing
- 3 m sensor cable, extendable up to 40 m
- Very small and compact design for installation in confined space

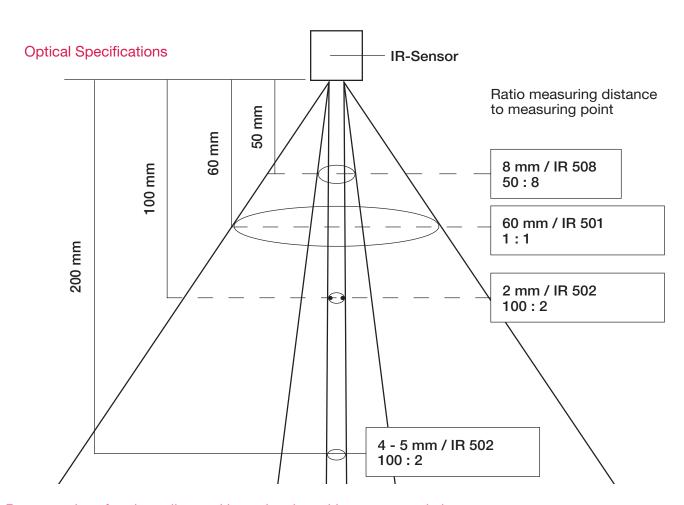


Specifications Specification Specif			
-40°C to +1000°C Temperature Measurement System novasens 2050 0-250 % Hotmelt Control System novasens 2000			
8-14 μm			
1,0 to 0,1 adjustable on controller			
Length 43 mm x 18 mm diameter with M18 x 1 thread			
95% not condensing			
-20°C to +50°C			
1:1 e.g 30 mm distance = 30 mm spot			
+/- 1% of reading			
0,5°C (0-100°C), 1,0°C (over 100°C)			
40 ms			
1/10°C			
0-20 mA, 4-20 mA, 0-10 VDC selectable on controller			
180 Grams (sensing head with 3 m cable including plugs)			
IP64			
Sensing head with 3 m cable including plugs and mounting screws, air filter F110			
RoHS-conformity			
0200207			

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

IR501



Sensor for detecting a larger measuring spot. Measuring distance to spot size 1:1.

ArtNr. 0200207

IR501SWL



Very fast sensor with extra short response time of 3ms. Measuring distance to spot and sensor size as sensor IR501. Rectangular spot: 4 x 13 mm Measuring distance: 5 - 100 mm Operation: very fast error message for adhesive failure, adhesive dot count, order quantity measurement in %

ArtNr. 0200288

Air Filter F110



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

ArtNr. 0200215

IR501S



Very fast sensor with extra short response time of 3 ms. Measuring distance to spot and sensor size as sensor IR501

ArtNr. 0200287

Water cooled sensor housing



For use in very hot ambient temperatures, or directly on a heat source. Attachment with rotable T-piece for water supply, screw for all sensing heads

ArtNr. 0200239

Specifications are subject to change.

IR501ACS



Data as IR501S, with additional compressed air supply for air cooling and lens cleaning

ArtNr. 0200233

Sensor cable extension



Including plugs, per meter

ArtNr. 0200225

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