

novasens Infrared Sensor IR501

At a glance

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

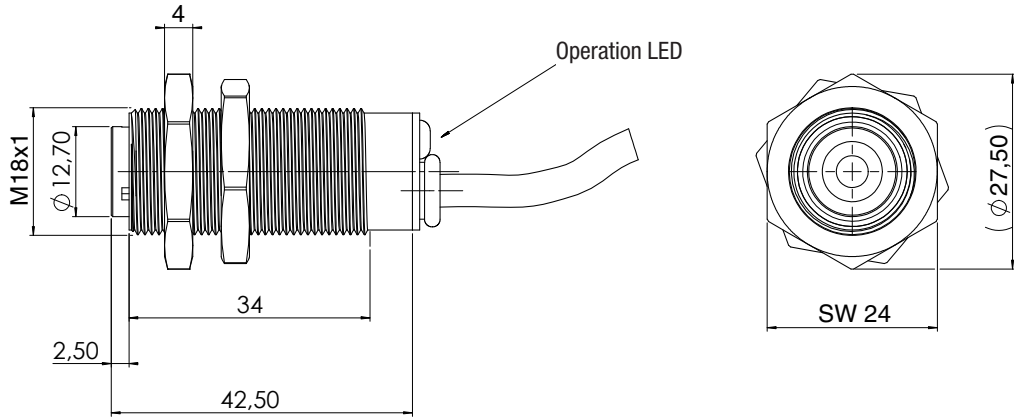


Specifications

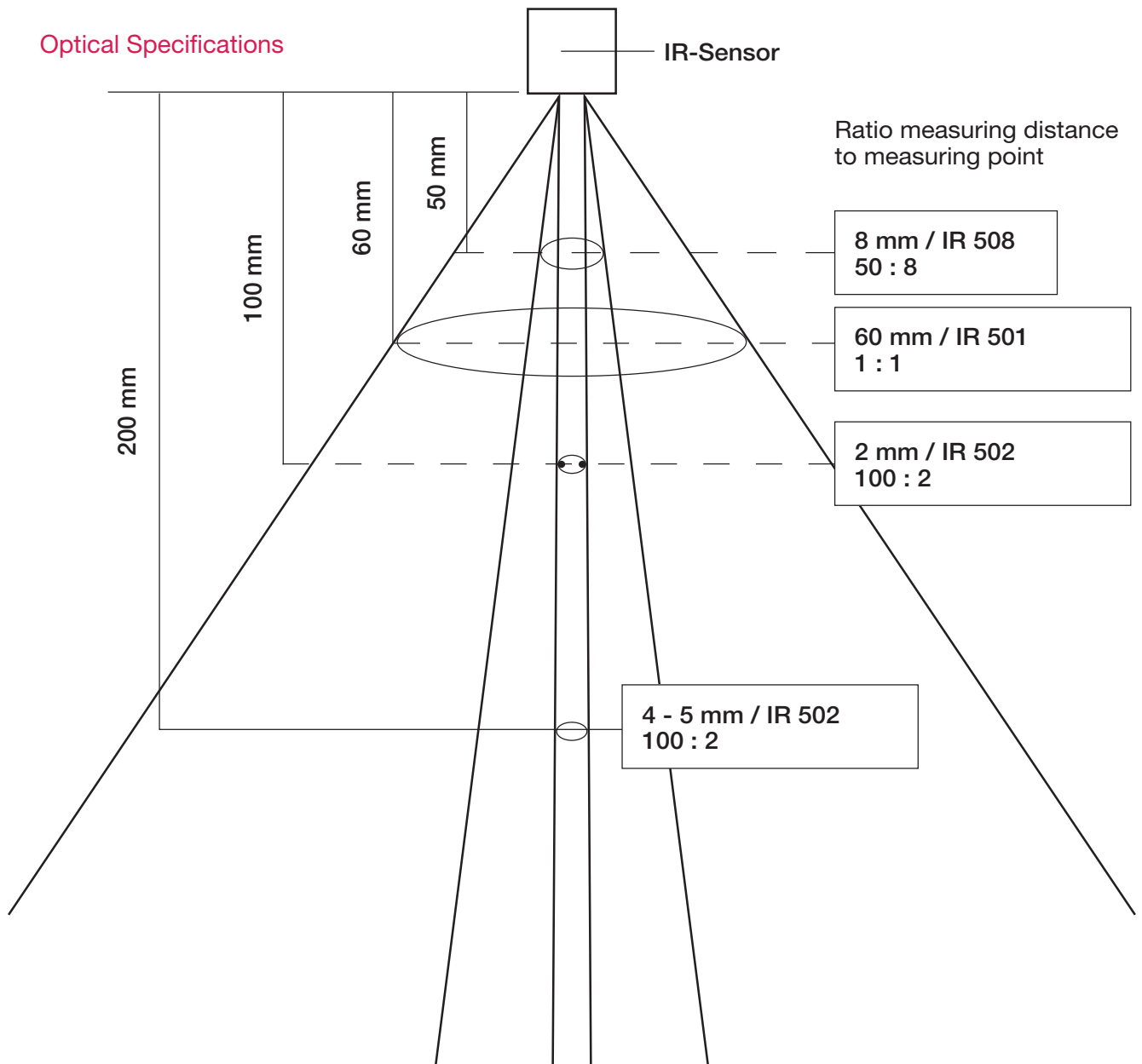
Measuring range / Field of application	-40°C to +1000°C Temperature Measurement System novasens 2050 0-250% Hotmelt Control System novasens 2000
Spectral range	8- 14 µm
Emissivity correction	1,0 to 0,1 adjustable on controller
Dimensons	Length 43 mm x 18 mm diameter with M18x1 thread
Permissible moisture	95% not condensing
Permissible ambient temperature	-20°C to +50°C
Distance to measuring spot	1:1 e.g 30 mm distance = 30 mm spot
Accuracy	+/- 1% of reading
Repeat accuracy	0,5°C (0-100°C), 1,0°C (over 100°C)
Reaction time	40 ms
Resolution	1/10°C
Outputs	0-20 mA, 4-20 mA, 0-10VDC selectable on controller
Weight	160 Grams (sensing head with 3 m cable including plugs)
Protection class	IP54
Delivery scope	Sensing head with 3 m cable including plugs and mounting screws
Conformity	RoHS-conformity
Model	0200207

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

Dimensions



Optical Specifications



Variants and Options

IR501AC



For use in hot or dirty environments .
Measuring distance to spot and sensor size as sensor IR501 with additional compressed air supply for air cooling and lens cleaning

ArtNr. 0200208

IR501S



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

ArtNr. 0200287

IR501ACS



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

ArtNr. 0200233

IR501SWL



Very fast sensor with extra short response time of 3ms. Measuring distance to spot and sensor size as sensor IR501.
Rectangular spot : 4x13mm
Measuring distance: 5 - 100 mm
Operation: very fast error message for adhesive failure, adhesive dot count, order quantity measurement in %

ArtNr. 0200288

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

ArtNr. 0200225

Specifications are subject to change.