

MI-N 300

2-wire, precise, compact

Stationary infrared sensor head for non-contact temperature measurement of non-metallic objects between -20°C and $+500^{\circ}\text{C}$ using a patented 2-wire technique

- Linear current output
- 2-wire installation
- Stainless steel housing
- Adjustable emissivity
- Easy to install and to connect
- Suitable for food industry
- Up to 70°C operating temperature



Typical Applications:

Measurement of plastics, rubber, paper, ceramics, textiles, fluids, painted parts, asphalt, wood, glass, food etc.

Technical Data:

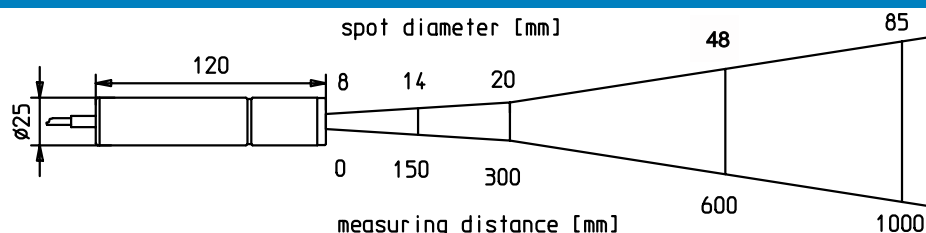
Spectral response:	8...14µm (no influence of water vapour)	Power supply:	24 VDC ± 25% stabilised, ripple < 50mV
IR-detector:	Thermopile Si-based	Operating temperature:	0 ... +70°C
Optics:	Ge-lens (see chart)	Storage temperature:	-20 ... +70°C
Output:	4...20 mA, load independent current, linear to temperature	Housing:	Stainless steel
Max load:	500 Ohms @ 24 V supply	Housing dimensions:	120 mm x 25 mm (L x D)
Emissivity:	0.4...1; adjustable	Enclosure rating:	IP 65 (according to DIN 40 050)
Response time t_{90} :	300 ms; fixed	Safety class:	I according to VDE 0411
Accuracy:	±1.5% of the measuring range (@ correct emissivity, $T_{amb} = 23^{\circ}C$)	Mounting position:	any
Repeatability:	±1% of the measuring range	Weight:	215g
Temp. dependance:	0...60°C: 0.03% of measuring range /°C	Connection cable:	2 m, fixed
		EMV-tests:	CE-mark for ESD, RF-radiation bursts, electromagnetic fields

Measuring ranges:

Temperature range

Ref.No. 5 856 310	0 ...+100°C
Ref.No. 5 856 320	0 ...+200°C
Ref.No. 5 856 330	-20 ...+300°C
Ref.No. 5 856 350	0 ...+500°C

Optics:



Accessories:

5 890 600	Power supply 24 VDC for carrier rail mounting	5 890 610	Galvanic separator for carrier rail mounting
5 852 150	Power supply unit NG 2 with 2 limit switches	5 863 010	Converter MI-W 5-C (4...20 mA to 0...20mA)
5 890 640	MI-DA 4000-N, LED-display, 2-wire power supply	3 834 230	Adjustable mounting support, rugged design
5 890 650	MI-DA 4000, LED-display: as MI-DA 4000-N, 2 limit switches	3 834 220	Adjustable mounting support, standard design
5 890 680	MI-DA 5000, LED-display, 2-wire power supply, maximum value storage, RS232, analog output	3 846 170	Mounting tube
5 890 660	IP 65-front cover for MI-DA4000-N, MI-DA4000, MI-DA5000	3 835 180	Air purge unit, stainless steel
		5 827 070	Laser targeting

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Specifications are subject to change without notice.