


Infratherm

IN 5-Ex

Stationary Infrared pyrometer for non-contact temperature measurement in 2-wire form, intrinsically safe, explosion proof, **TÜV 02 ATEX 1895**

Technical data IN 5-Ex:

The pyrometer is marked with the  -sign and with **II 2 G Eex ib IIC T6**

Optics:	Ge-lens
IR-Detector:	Si-based thermopile
Spectral response:	8...14 µm (no influence of water vapour or CO ₂)
Output signal:	4...20 mA load independent DC, linear
Max load:	500 Ohms @ 24 V
Emissivity:	0.4 ... 1.; adjustable
Response time t ₉₀ :	100 ms ... 10 s; adjustable
Accuracy:	± 1 % of measuring range ± 1 °C (with correct emissivity setting, T _{amb} = 23 °C)
Temp. dependance:	0...60°C: 0.03% of measuring range / °C
Repeatability:	± 1.5 °C for MB 1; ± 2 °C for all other measuring ranges
Safety system:	IP 65 with closed cover and mounted connector
Storage temperature:	-20...+70 °C
Power supply:	intrinsically safe electric circuit with limiting values: U _k ≤ 30 V, I _k ≤ 50 mA, P ≤ 1500 mW
Operating temperatures:	0...40 °C for temperature class T6 0...65 °C for temperature class T4
Housing:	stainless steel
Dimensions:	102 mm x 49.5 mm (LxD)
Weight:	395 g
Mounting position:	any
Connecting cable:	2 m, in delivery included
CE-mark:	according to EC-directive on immunity from disturbance

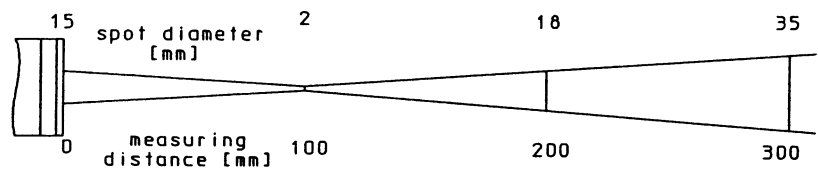
Temperature ranges:

IN 5-Ex:	Ref.-No:
MB 1 0...100°C	3 859 210
MB 2 0...200°C	3 859 220
MB 3 0...300°C	3 859 230
MB 4 0...400°C	3 859 240
MB 5 0...500°C	3 859 250
MB 6 0...600°C	3 859 260
MB 7 0...700°C	3 859 270

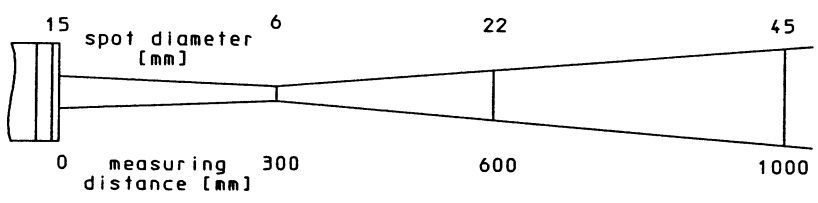
Other temperature ranges upon request

Optics IN 5-Ex: (Lens tolerances are not respected)

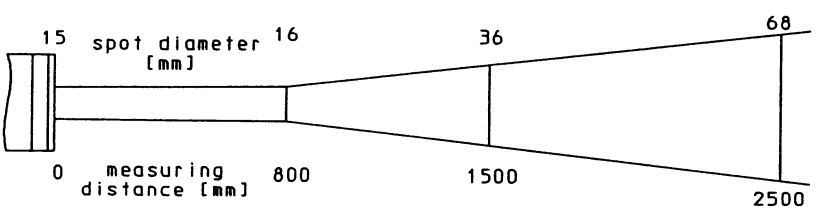
optics	measuring distance	spot size
100	100	2
300	300	6
800	800	16



optics 100

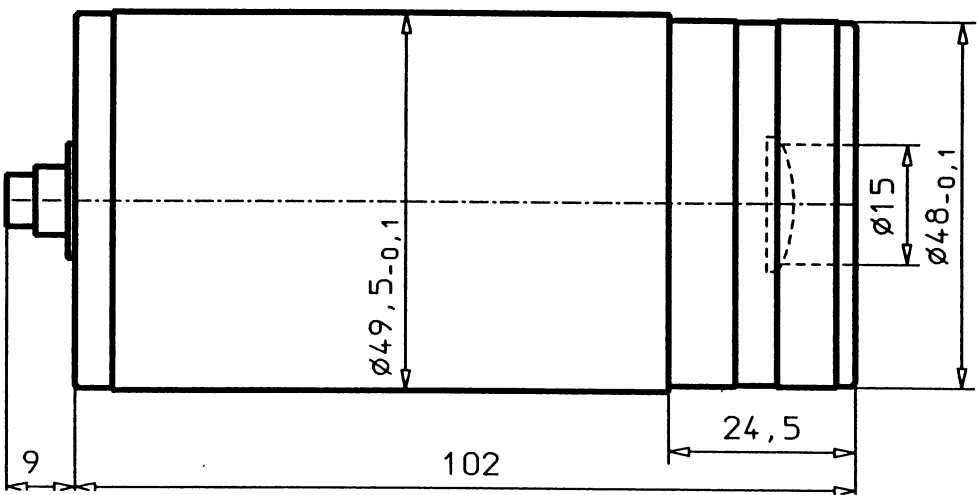


optics 300



optics 800

Dimensions: (all units in mm)



Scope of delivery: Converter with cable, 2 m.

Order information: To process your order as fast as possible, please give us the following data:

- the type and the temperature range or the ref. number
- the optics (e.g. "optics 300")

Service Guarantee: Our technical staff are always available to assist with your application.

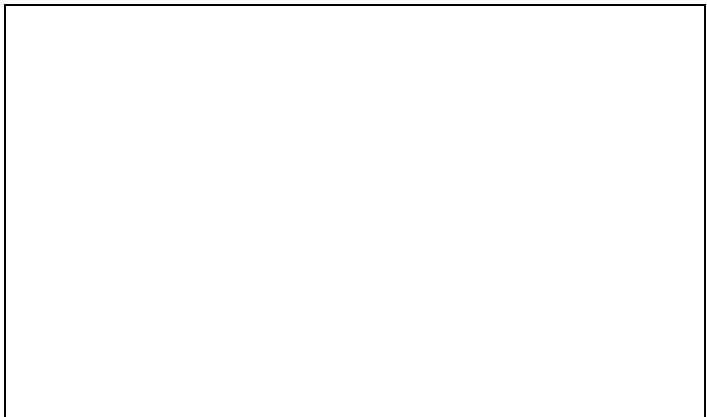


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Specifications are subject to change without notice.