



## IN 300/5

Small, stationary infrared converters for non-contact temperature measurement of glass surfaces between 300°C and 1300°C in 2-wire-technology

### The compact converter for glass surfaces

- extremely small glass pyrometer
- linear current output
- 2-wire-technique
- stainless steel housing
- emissivity adjustable
- easy to install and connect
- up to 70°C ambient temperature



### for:

- glass surfaces
- quartz glass surfaces
- glass ceramic

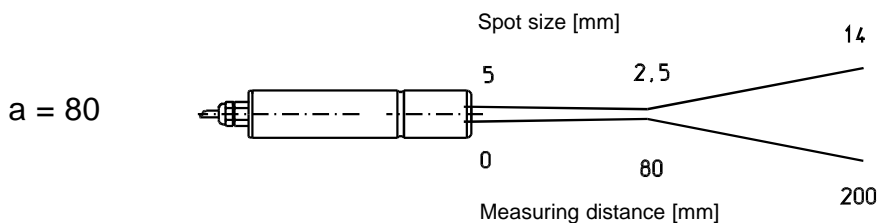
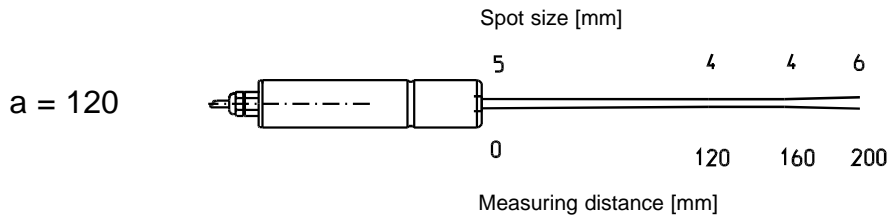
### applications:

- float glass
- glass hardening
- bulb production
- hollow glass
- glass bending
- heat treatment

## Technical data:

Optics:	CaF2-lens	Safety system:	IP 65 (according to DIN 40 050)
IR-detector:	Si-based thermopile	Safety class:	I according to VDE 0411
Spectral response:	5.14µm, narrow band	Operating temperature:	0 ... +70°C
Output:	4...20 mA, load independent current, linear to temperature	Storage temperature:	-20 ... +70°C
Max load:	500 Ohms @ 24 V supply	Power supply:	24 V DC ± 25% stabilised, ripple < 50mV
Emissivity:	0.4...1; adjustable	Housing:	Stainless steel
Response time $t_{90}$ :	100 ms; fixed	Housing dimensions:	120 mm x 25 mm (L x D)
Accuracy:	±1.5% of the measuring range (@ correct emissivity, $T_{amb} = 23°C$ )	Mounting position:	any
Temp. dependance:	0...60°C: 0.03% of measuring range /°C	Weight:	215g
Repeatability:	±1% of the measuring range	Connection cable:	2 m, fixed
		EMV-tests:	CE-mark for ESD, RF-radiation bursts, electromagnetic fields

## Optics:



## Reference numbers:

Measuring range	Optics	Ref. no.
300 ... 800 °C	a = 120 mm	3 856 420
300 ... 1300 °C	a = 80 mm	3 856 430

## Accessories:

Ref. no.	Accessories	Ref. no.	Accessories
3 890 600	Power supply 24 V DC for carrier rail mounting	3 834 230	Adjustable mounting support, rugged design
3 852 150	Power supply NG 2 with 2 limit switches	3 834 220	Adjustable mounting support, standard design
3 890 640	DA 4000-N, LED-display, 2-wire power supply	3 846 170	Mounting tube
3 890 650	DA 4000, LED-display: as DA 4000-N, 2 limit switches	3 835 180	Air purge unit, stainless steel
3 890 680	DA 5000, LED-display, 2-wire power supply, maximum value storage, RS232, analog output	3 827 070	Laser pilot light
3 890 660	IP 65-front cover for DA 4000-N, DA 4000, DA 5000	3 827 100	Twin-laser-pilot-light
3 890 610	Galvanic separator for carrier rail mounting	3 837 160	Stainless steel water cooling jacket with integrated air purge unit
3 863 010	Converter IW 5-C (4...20 mA to 0...20mA)		



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