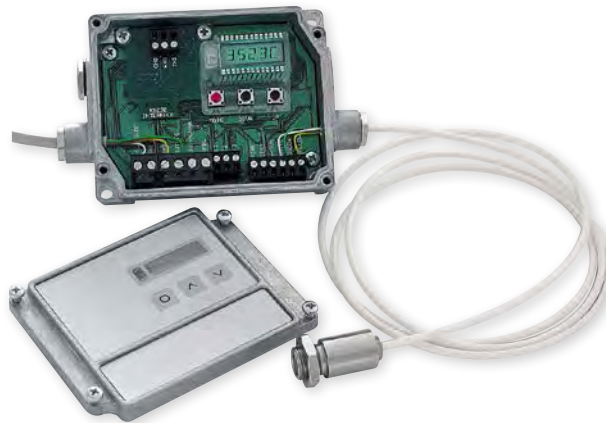


INFRARED-MEASURING TRANSDUCER



NON-CONTACT TEMPERATURE
MEASURING FROM -50 ... +975 °C



HIGHLIGHTS:

- small infrared sensor heads with 22:1 optical resolution
- rugged and applicable without cooling up to 180 °C ambient
- adjustable emission factor
- freely scaleable analogue output
- illuminated liquid crystal display

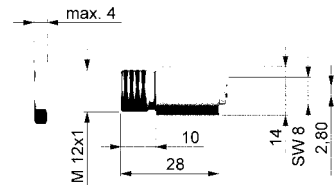
IRCT20

Art. no. 602832

Precision infrared transducer, -50 ... +975 °C, optic 22:1

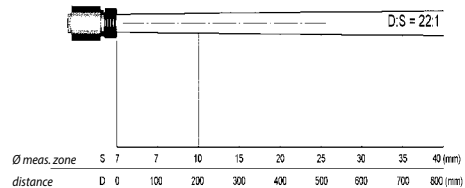
Application:	
Glass, paper, plastic industries, automotive industry, metal industry, quality assurance / maintenance	
Specifications:	
Measuring range:	-50 ... +975 °C freely scaleable via programming keys
Spectral sensitivity:	8 ... 14 μm
Optic resolution:	22:1 (precision glass optics)
System accuracy:	±1 % or ±1 °C (higher value applicable)
Reproducibility:	±0.5 % or ±0.5 °C (higher value applicable)
Nominal temperature:	23 ±5 °C
Temperature coefficient:	0.05 % or 0.05 °C/K (higher value applicable)
Temperature resolution:	0.1 °C
Response time:	150 ms (95 %)
Emission-, transmission factor:	adjustable from 0.100 ... 1.100
Output signals:	0 ... 20 mA, 4 ... 20 mA, 0 ... 5 V, 0 ... 10 V thermocouple type J or K
Output impedance	
mA:	max. 500 Ohm (at 8 ... 36 V DC)
V:	min. 100 kOhm load resistance
Thermo couple:	20 Ohm
Voltage supply:	8 ... 36 VDC
Power consumption:	max. 100 mA
Cable length:	1 m (standard), 3 m, 15 m
Protection rating:	IP65 (NEMA-4)
Ambient temperature	
Measuring head:	-20 ... +180 °C
Electronic box:	0 ... +65 °C
Storage temperature	
Measuring head:	-40 ... +180 °C
Electronic box:	-40 ... +85 °C
Relative humidity:	10 ... 95 %, non condensing
Vibration (meas. head):	
IEC 68-2-6:	3G, 11 ... 200 Hz, each axis
Shock (meas. head):	
IEC 68-2-27:	50G, 11 ms, each axis
Weight (meas. head / elec. box):	40 g / 420 g
Dimensions electronic box:	120 x 70 x 30 mm
Scope of supply:	electronics-box with LCD, stainless steel sensor head (M12) incl. screw nut, 1 m high temperature sensor head cable, manual

Options:	
CB3	3 m sensor head cable
CB15	15 m sensor head cable
CF	Auxiliary lens for measuring of smallest objects measuring zone dia 0.6 mm @10 mm, in long distance 1.5:1
Accessories and spare parts:	
MW	Art. no. 604567 Mounting bracket, fixed,
MB	Art. no. 604568 Mounting bolts with M12x1 housing
MG	Art. no. 603711 Mounting fork, adjustable in 2 axis with M12x1 mount
FVS	Art. no. 603138 Standard air purge collar
FVL	Art. no. 603712 Laminar blow clear header
ISO-WPS-IRCT	Art. no. 604967 Calibration certificate 23 °C, 110 °C, 510 °C



Further special design types (e.g. for metal processing, or with other optics) up on request

Optic resolution (standard)



Optic resolution (with option CF)

