

new

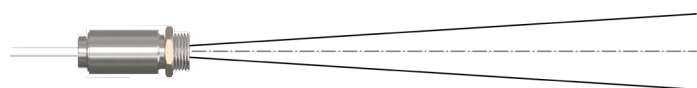
Infrared Measuring Technology

Compact MI40 series infrared probe head with analog output and USB connection for surface temperature measurement



- Three optical resolution ratios: 2:1 / 15:1 / 22:1
- Wide measuring range: -50 to max. 1050 °C
- Focus point up to max. 0.6 mm
- Wavelength range 8 to 14 µm
- USB port for power supply, data output, and settings
- Settings can be adjusted on the controller
- Stainless steel housing, protection class IP65
- Easy installation thanks to M12 design

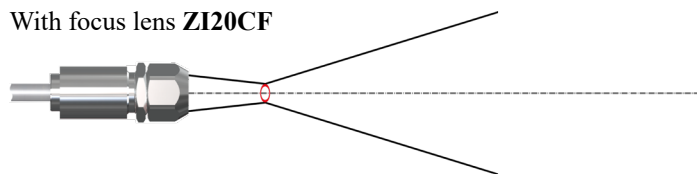
Optical Characteristics



Optical resolution:

MI4002SF0xx	2:1
MI4015SF0xx	15:1
MI4022SF0xx	22:1

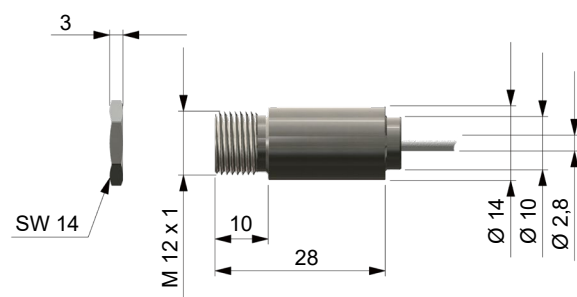
With focus lens ZI20CF



Focus point:

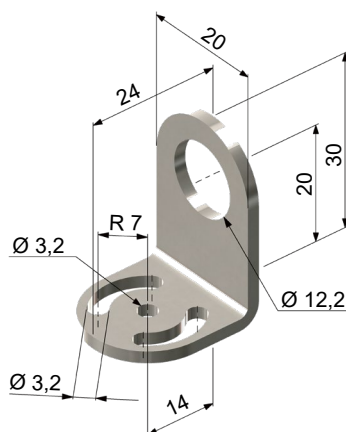
MI4002SF0xx	2.5mm@23mm
MI4015SF0xx	0.8mm@10mm
MI4022SF0xx	0.6mm@10mm

Dimensions

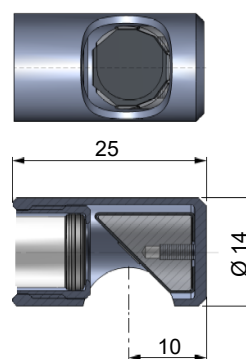


Optional Accessories

Mounting bracket
ZI20FB



90° Deflection mirror
ZI20RAM



Accessories

Focus lens
Mounting bracket
90° Deflection mirror only for D:S > 10:1

Order no.

ZI20CF
ZI20FB
ZI20RAM

Technical data:

Temperature range:	-50 to 1500 °C
Spectral sensitivity:	8 to 14 µm
Measuring uncertainty:	±1 % or ±1 °C, the greater value applies
Repeatability:	±0.2 °C or ±0.1 % (MI4002SF0xx) ±0.1 °C or ±0.1 % (MI4015SF0xx) ±0.15 °C or ±0.1 % (MI4022SF0xx)
Nominal conditions:	23 °C ±5 K, Measuring object > 0 °C
Temperature resolution:	25 mK (MI4002SF0xx, MI4015SF0xx) or 35 mK (MI4022SF0xx)
Response time:	115 ms
Protection class:	IP65
Ambient temperature:	-20 to 85 °C (Control unit)
Storage temperature:	-40 to 85 °C
Relative humidity:	10 to 95 % non-condensing
Housing:	Stainless steel
Dimensions (Sensor head):	Length 28 mm, M12x1 thread
Connection:	Terminal block inside the housing
Weight:	40 g (Sensor head) + 420 g (Control unit)
Output (analog):	0 to 5 V, 0 to 10 V, 0 to 20 mA, 4 to 20 mA (adjustable)
Power supply:	8-30 V DC

Variants

Temperature range	Optical resolution	Ambient temperature probe head	Focal length with focus lens	Meas. spot with focus lens	Cable length	Order no.
-50...+650 °C	2:1	-20...+120 °C	23 mm	Ø 2.5 mm	1 m	MI4002SF0
-50...+650 °C	2:1	-20...+120 °C	23 mm	Ø 2.5 mm	3 m	MI4002SF0L3
-50...+800 °C	15:1	-20...+180 °C	10 mm	Ø 0.8 mm	1 m	MI4015SF0
-50...+800 °C	15:1	-20...+180 °C	10 mm	Ø 0.8 mm	3 m	MI4015SF0L3
-50...+1500 °C	22:1	-20...+180 °C	10 mm	Ø 0.6 mm	1 m	MI4022SF0
-50...+1500 °C	22:1	-20...+180 °C	10 mm	Ø 0.6 mm	3 m	MI4022SF0L3