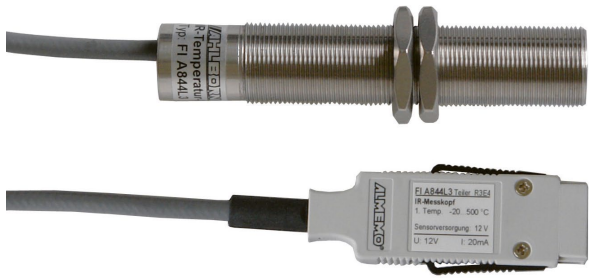
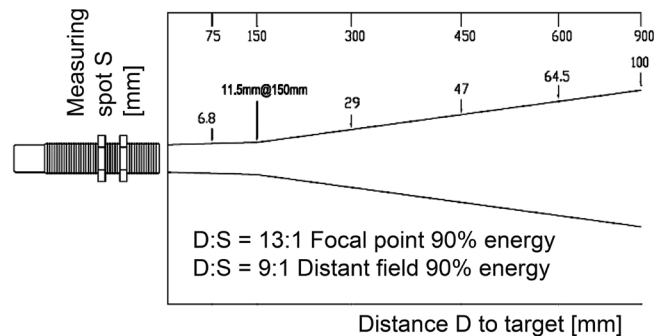
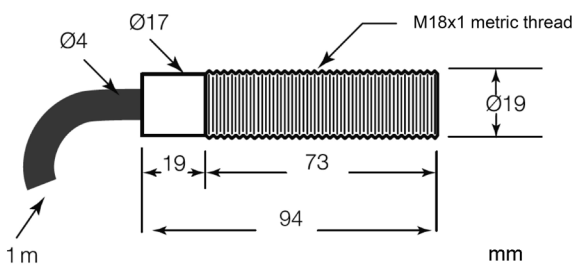


# Infrared measuring technology

## Compact infra-red probe head AMiR FIA 844 suitable for all ALMEMO® devices



- Compact inexpensive infra-red probe head for measuring surface temperature
- Other measuring ranges -20 to +500 °C
- High optical resolution Measuring spot 11.5 mm at distance 150 mm, in distant field 9:1
- Sturdy stainless steel housing Protection IP65
- Quick and easy to install thanks to screw-fit housing
- Integrated electronics, cable permanently fitted
- Can be connected directly to the ALMEMO® device using an ALMEMO® connector.



10/2021 • We reserve the right to make technical changes.

### Accessories

Mounting bracket, rigid  
 Mounting bracket, adjustable  
 Air blower attachment Thread M18x1

### Order no.

ZR7844FB  
 ZR7844JB  
 ZR7844APM

### Variants (including 2 mounting nuts):

ALMEMO® infra-red probe head Measuring range -20 to +500 °C  
 with permanently fitted cable and ALMEMO® connector, Cable length = 1 meter

Same as above Cable length = 3 meters

Factory calibration KI9xxx temperature for sensor (see chapter Calibration certificates)

**FIA844**

**FIA844L3**

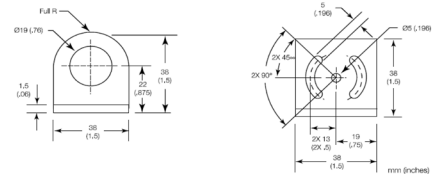
# Infrared measuring technology

## Technical data

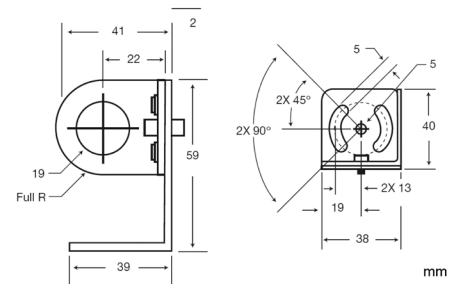
Temperature range	-20 to +500 °C
Spectral sensitivity	8 to 14 μm
Optical resolution (90 % energy)	13:1 (11.5 mm at 150 mm distance), distant field 9:1
Accuracy	±1.5 % of measured value or ±2 K (whichever value is higher) ±3.5 K for measured values <0 °C
Reproducibility	±0.5 % of measured value or ±1 K (whichever value is higher)
Nominal conditions	23 °C ±5 K, Emissivity 0.95
Temperature resolution	0.1 K
Response time	150 ms (95 %)
Emissivity	0.95, fixed setting
Voltage supply	via ALMEMO® connector (12 VDC)
Protection	IP65
Ambient temperature	-10 to +70 °C
Storage temperature	-20 to +85 °C
Relative atmospheric humidity	10 to 95 % non-condensing
Housing	Stainless steel
Dimensions	Length 94 mm Thread M18x1
Connecting cable	permanently fitted, 1 or 3 meters, -30 to +105 °C including ALMEMO® connector, programmed
Weight	approx. 160 g (1-meter cable)

10/2021 • We reserve the right to make technical changes.

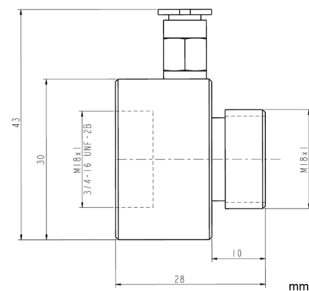
Mounting bracket  
Order no. ZR7844FB



Mounting bracket, adjustable  
Order no. ZR7844JB



Air blower attachment  
Thread M18x1  
Order no. ZR7844APM



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