

Compact Sensing Head • Quick Response Time

# Infrared Temperature Sensor

RD-715-HA

- Non-contact temperature measurement
- Compact and sturdy sensing head
- Quick response time
- Temperature range: 0 to 500°C
- Drip-proof/Dust-proof IP65
- CE mark certified



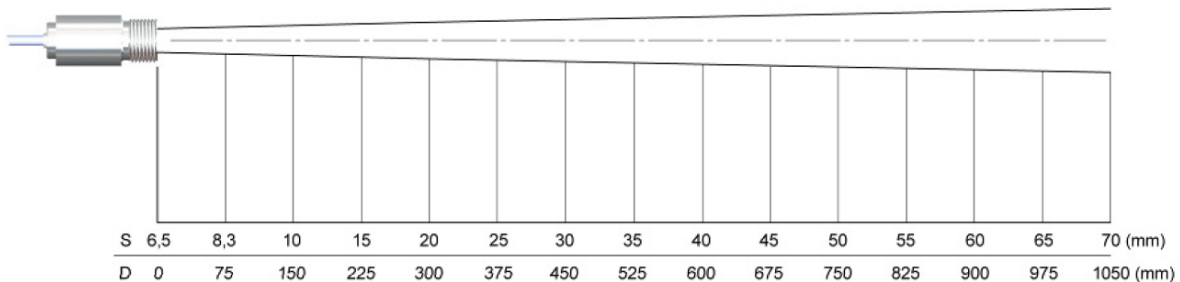
Electronics

RD-715-HA

Sensing head

## ■ Target Spot Size versus Distance from Sensing Head

Field of view D:S = 15:1



S: Target spot size

D: Distance from Sensing Head to the object

**Shinko**

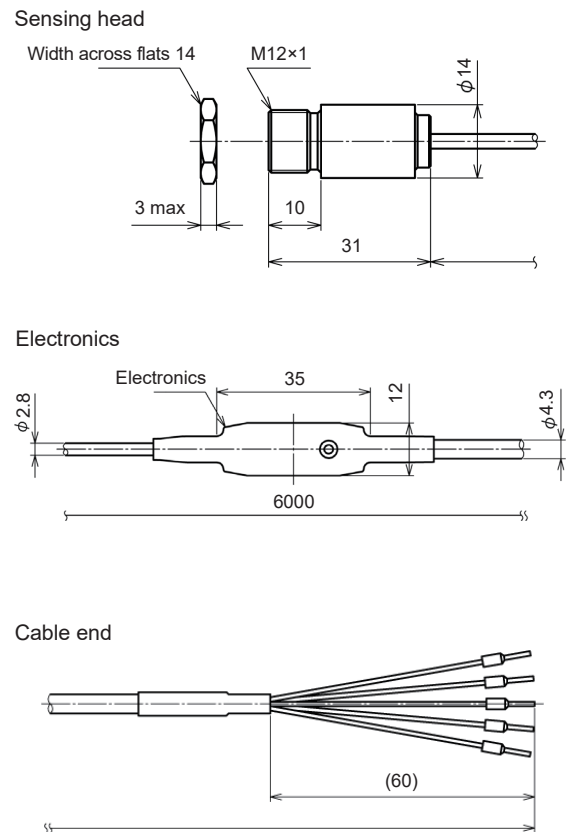
## Model

Field of View	Model	Temperature Range	Output
15:1	RD-715-HA	0 to 500°C	Direct current: 4 to 20 mA DC (2-wire type)

## Standard Specifications

Accuracy (*1)	± 1% of temperature span
Repeatability (*1)	± 0.75% of temperature span
Temperature Coefficient (*2)	± 0.05 %/°C
Temperature Resolution	0.1°C
Emissivity	Fixed at 0.950 0.200 to 1.000 [When digital indicating controller (ACS-13A-□/A, sold separately) is used]
Transmissivity	Fixed at 1.000
Response Time	14 ms (90% response)
Spectral Range	8 to 14 μm
Power Supply	2-wire type, 5 to 30 V DC, 4 to 20 mA External shunt resistor: Max.1000 Ω
Ambient Temperature	Sensing head: -20 to 120°C Electronics: -20 to 80°C
Ambient Humidity	10 to 95 %RH (non-condensing)
External Dimensions	Sensing head: φ14 x 31 mm (diameter x length), M12 x 1 Electronics: 35 x 12 mm
Weight	152 g
Material	Sensing head: Stainless steel Cable between sensing head and electronics: FEP, Cable diameter: 2.8 mm Cable between electronics and cable end: PVC, Cable diameter: 4.3 mm
Mounting	Fixed using a mounting bracket (sold separately)
Drip-proof/Dust-proof	IP65
Cable Length	6 m (Between sensing head and electronics: 3 m Between electronics and cable end: 3 m)

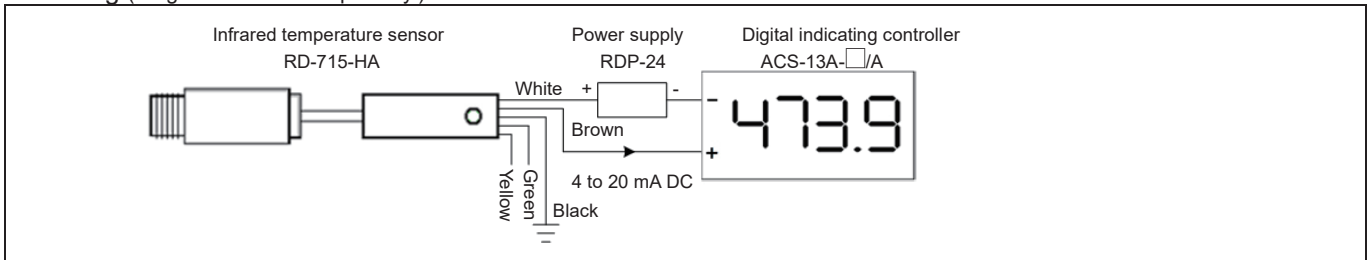
## External Dimensions (Scale: mm)



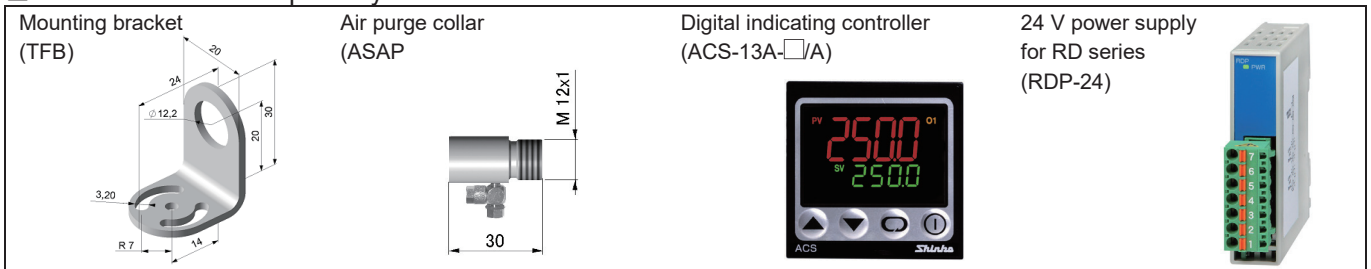
(\*1) Ambient temperature: 23 ± 5°C

(\*2) Ambient temperature (sensing head) is lower than 18°C, and higher than 28°C.

## Wiring (Diagram shows example only.)



## Accessories Sold Separately



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