Infrared Temperature Sensor

RD-715-HA

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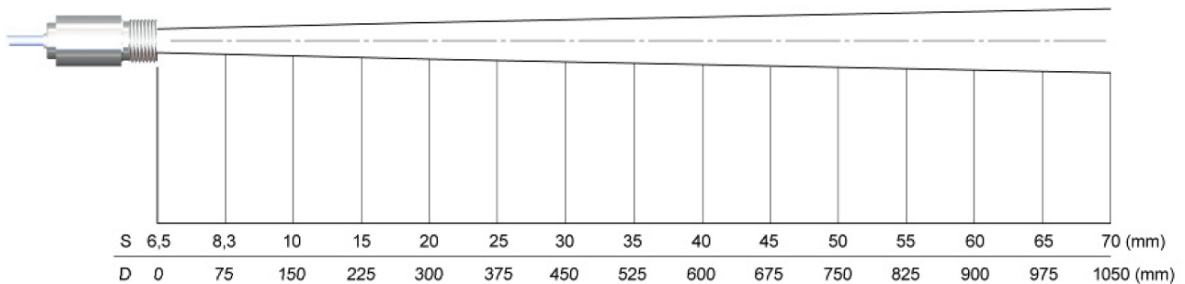- ■ Drip-proof/Dust-proof IP65
- ■ CE mark certified

Electronics

RD-715-HA

Sensing head

■ Target Spot Size versus Distance from Sensing Head

Field of view D:S = 15:1

S	6,5	8,3	10	15	20	25	30	35	40	45	50	55	60	65	70 (mm)
D	0	75	150	225	300	375	450	525	600	675	750	825	900	975	1050 (mm)

S: Target spot size
D: Distance from Sensing Head to the object

■ Model

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

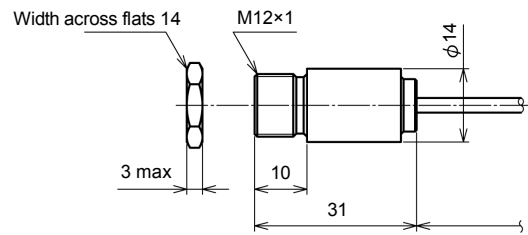## ■ Standard Specifications

Accuracy (*1)	±1 % of temperature span
Repeatability (*1)	±0.75 % of temperature span
Temperature Coefficient (*2)	±0.05 %/ ℃
Temperature Resolution	0.1 ℃
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	30 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 ℃ Electronics: -20 to 80 ℃
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	152g

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)

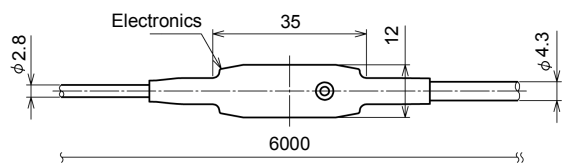(*1) Ambient temperature: 23±5 ℃
(*2) Ambient temperature (sensing head) is lower than 18 ℃, and higher than 28 ℃.

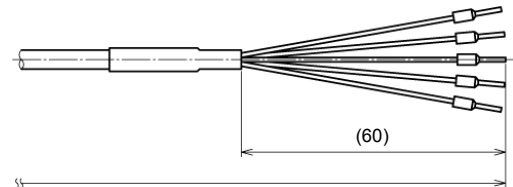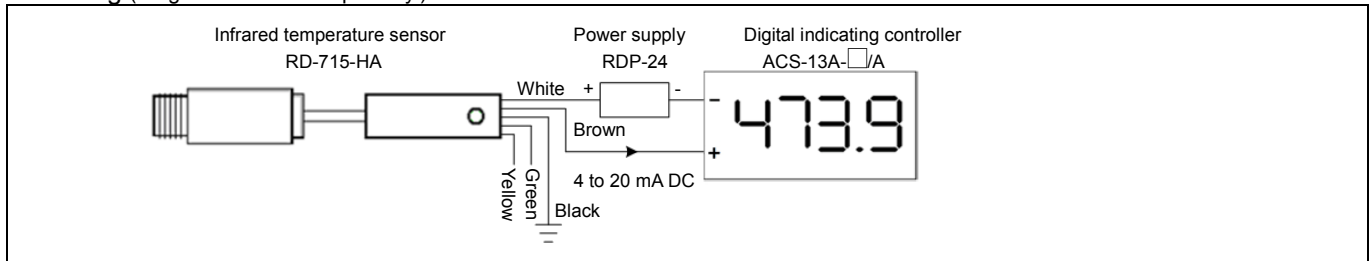## ■ External Dimensions (Scale: mm)

Sensing head

Electronics

Cable end

■ Wiring (Diagram shows example only.)

■ Accessories Sold Separately

Mounting bracket (TFB)

Air purge collar (ASAP)

Digital indicating controller (ACS-13A-▢/A)

24 V power supply for RD series (RDP-24)