# Infrared Temperature Sensor

RD-500 SERIES

- ■ Non-contact temperature measurement
- ■ Select from a versatile lineup
- ■ Temperature range: 0 to 250 ℃, 0 to 500 ℃
- ■ Close focus type for pinpoint measurement
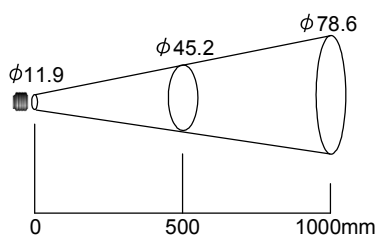- ■ All with the same dimensions
- ■ CE marking acquired

RD-5CF-H0

RD-502-M0

Sensing Head

RD-515-M0
RD-515-H0

■ **Target Spot Size versus Distance from Sensing Head**

RD-502-M0 (Field of view 2:1)

ϕ11.9 — ϕ61.9 — ϕ111.9

0   100   200mm

RD-515-□0 (Field of view 15:1)

ϕ11.9 — ϕ45.2 — ϕ78.6

0   500   1000mm
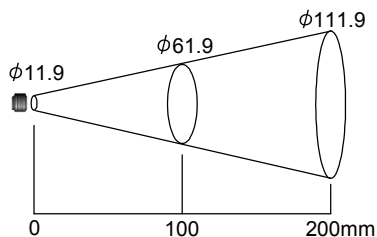
RD-5CF-H0 (Close focus)

ϕ11.9 — ϕ5.0 — ϕ12.5

0   100   200mm
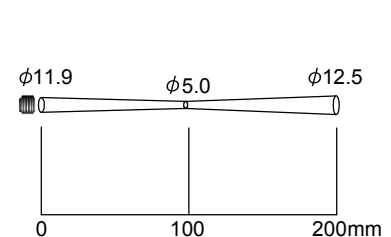
■ Model

| Field of View		Model	Temperature Range	Output
Field of view	2:1	**RD-502-M0**	0 to 250 ℃	Current: 4 to 20 mA DC (2-wire type)
	15:1	**RD-515-M0**	0 to 250 ℃	
		RD-515-H0	0 to 500 ℃	
Close focus type		**RD-5CF-H0**	0 to 500 ℃	

■ Standard Specifications

Accuracy	±1 % of reading or ±1 ℃, whichever is greater
Repeatability	±0.5 % of reading or ±0.5 ℃, whichever is greater
Emissivity	Fixed at 0.95 0.200 to 1.000 [When the digital indicating controller (ACS-13A-□/A) is used]
Response Time	240 ms (90 % response)
Spectral Range	8 to 14 μm
Max. Load Resistance	900 Ω (Current output) (when power supply is 24 V DC)
Supply Voltage	24 V DC (Max. 28 V DC), 25 mA
Ambient Temperature	0 to 70 ℃
Ambient Humidity	Max. 95 %RH (non-condensing)
Dimensions	ϕ18 x 103 mm (Diameter x Length)
Weight	Approx. 100 g (including cable)
Material	Stainless steel SUS304
Mounting	Fixed using a mounting bracket (sold separately)
Drip-proof/Dust-proof	IP65
Cable Length	1 m

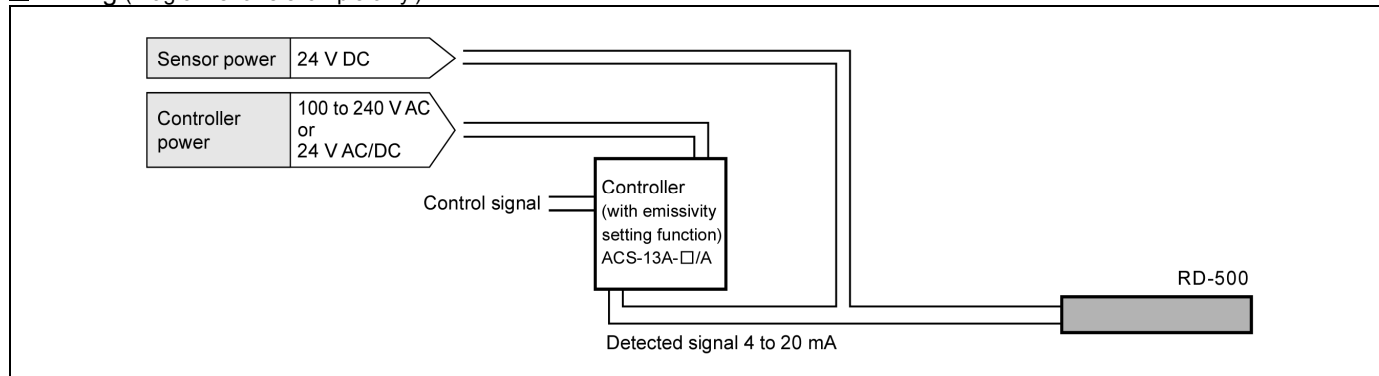■ External Dimensions (Scale: mm)

RD-502-M0, RD-515-M0, RD-515-H0
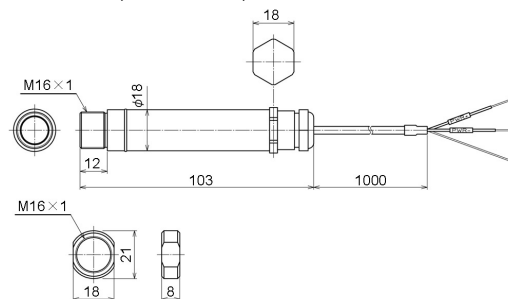
RD-5CF-H0
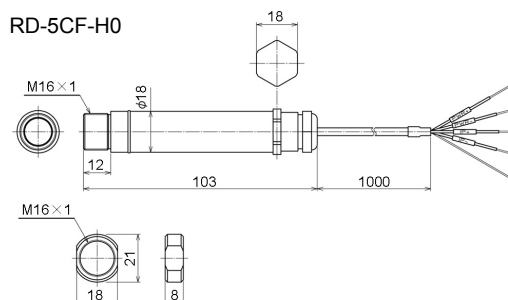
■ Wiring (Diagram shows example only.)

Close focus type (RD-5CF-H0) is 4-wire type, but 2 wires are not used.)

■ Accessories Sold Separately

Fixed mounting bracket (FBS)	Adjustable mounting bracket (ABS)	Air purge collar (For RD-502) (APSW)	Air purge collar (For RD-515, RD-5CF) (APSN)	24 V power supply for RD-500, RD-600 (RDP24)	Digital indicating controller (with emissivity setting function) (ACS-13A-□/A)