

Wide Range Measurement
400 to 1200°C



NEW

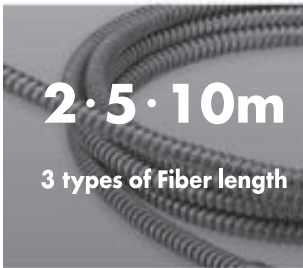
Non-Contact Thermometer

THERMO-HUNTER[®]

BUILT-IN2

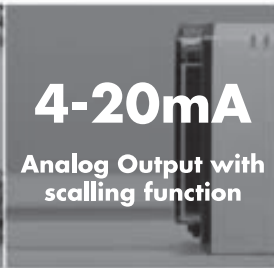
BF-30I-A

[Measuring Temperature Range : 400 to 1200°C]



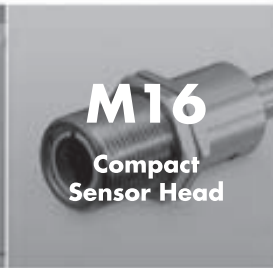
2 · 5 · 10m

3 types of Fiber length



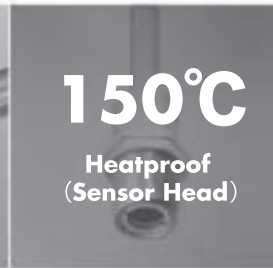
4-20mA

Analog Output with
scaling function



M16

Compact
Sensor Head



150°C

Heatproof
(Sensor Head)



**Teach
function**

Teach function

Features

■ Reliable Functions

- 400 to 1200°C Wide Range Measurement
- 4 to 20mA Analog Output with scaling function
- ε-TEACH function for automatic emissivity adjustment
- High-speed response time 50ms / 90%

■ Tough and Heavy-Duty

- Sensor head withstands up to 150°C (302°F) ambient temperature without the need for additional cooling
- Compact design allows installation in small confined spaces
- Tough fiber optic cable assembly for harsh environments
- 3 fiber optic cable lengths are available (2m Standard, 5 and 10m optional)

Specifications

Model	BF-30I-A
Measuring temperature range	400-1200°C
Area size	φ30 / 1000mm
Optics	Infrared sensor head
Spectral response	InGaAs / 1.2-2.6μm
Response speed	50ms / 90%
Accuracy	±2% of reading value
Repeatability	±1°C
Display resolution	1°C
Analog output	4-20mA
Output resolution	0.1-0.5°C (Depending on the setting value (100-800°C) of "High Limit"- "Low Limit")
Emissivity ratio (ε) adjustment	0.10-1.20
Delay function	Normal 1-200 variable
Power supply	DC12-24V±10% / MAX100mA
Ambient temperature	0-50°C (32-122°F) (Amplifier unit) 0-150°C (32-302°F) (Sensor head)
Environmental humidity	35-85%Rh (without dew condensation)
Storage temperature	-10 to +60°C (14 to 140°F)
Vibration resistance	10-55Hz, amplitude 1.5mm, two hours each in the direction of X, Y, Z
Water resistance	IP65
Materials	Ring, Case : glass-containing PBT, Rear : PSF, Cover : PC, Fiber : SUS, Lens attachment : BS/Ni-M
Weight	500g
Accessories	Attachment×1, M4 screw×2, Nut for lens (M16)×2

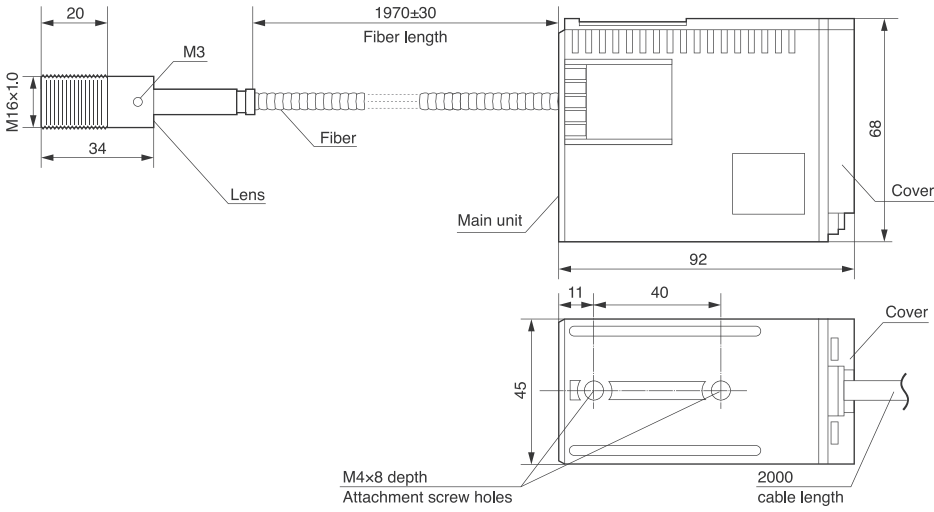
※Design and specification are subject to change for product improvement without prior notice.

Dimensions

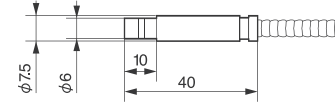
Unit [mm]

Main Unit

<with BFL-30/Standard lens>



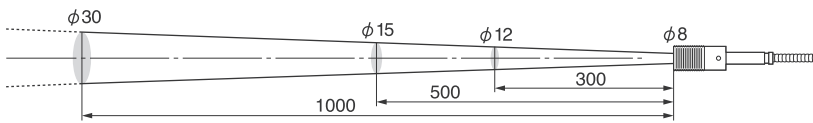
<without lens>



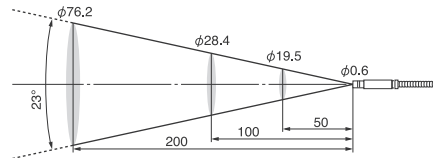
Field of View

Unit [mm]

BFL-30/standard lens



without lens



※Calibration at the factory is done with BFL-30 standard lens.

The optical resolution values stated in "Field of View" are at minimum 90% energy.

The size of measuring object should be sufficiently larger than the field of view (spot size) shown in the above illustration.