



FT-H50K

Sensor Head: High temperature model



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		FT-H50K
Type		High temperature, Ultra long-range
Rated temperature range		0 to 1350°C 32 to 2462°F *1
Displayable temperature range		-50 to +1400°C -58 to 2552°F
Detecting distance		Unlimited*2
Measuring distance / View diameter (example)		500/ø18 mm 15.69"/ø0.71" 1500/ø30 mm 59.06"/ø1.18" 3000/ø75 mm 118.11"/ø2.95"
Sight		2-point visible laser beam*3
Detecting element		Thermopile
Detecting wavelength		8 to 14 µm
Repeatability		±3°C 5.4°F
Emissivity (ε) correction		0.10 to 1.99 (0.01 step)
Environmental resistance	Ambient temperature	-10 to +55 °C 14 to 131 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06" , 2 hours in each of the X, Y, and Z axis
	Shock resistance	500 m/s ² , 10 times in each direction of each of X, Y and Z axis, 60 times in total
Material		Case: Reinforced glass plastic, Infrared collector lens: Germanium, Laser transmitter: Polyarylate Lens tube: Aluminum, Cable: Vinyl chloride, Mounting bracket: SUS304, Mounting screw: Stainless steel
Accessory		Mounting bracket
Weight		Approx. 150 g

*1 Repeatability is guaranteed within the rated temperature range.

*2 Place at a distance so that object appears 1.5 times larger than the view diameter.

*3 Visible semiconductor laser beam wavelength 655 nm, Class 1 Laser Product (IEC60825-1, FDA (CDRH) Part1040.10). The laser classification for FDA (CDRH) is implemented based on IEC 60825-1 in accordance with the requirements of Laser Notice.

* Download CAD file or product manual for larger image/text and more detail.

Technical drawings of the OP-42367 head connection connector, showing various views and dimensions. The drawings include a top view, a side view, a front view, and a detail view of the mounting bracket. Dimensions are provided in millimeters.

Top View: Shows the connector with dimensions: 19.6, 17.6, 3.6 (4-core x 0.18 mm²), Cable length: 3 m.

Side View: Shows the connector with dimensions: 20, 26.2, 35, 29, 15, 2.7, 91.7, 48, 6.5, 37.7, 17, 54.7, 2 x 3.2.

Front View: Shows the connector with dimensions: 20, 26.2, 35, 29, 15, 2.7, 91.7, 48, 6.5, 37.7, 17, 54.7, 2 x 3.2.

Detail View: Shows the mounting bracket with dimensions: 41.6, 13.1, 4.5, 8, 7.8, 20°, 29, 3.8, 27.6, 29, 20°, 6 x R1.8, 2 x 3.5, 10°, 25°, 65.8, 20.8, SUS304, t = 2.0, 2 x M3 screw, 29, 35, 6, SUS304, t = 1.5.

Horizontal mounting: Shows the connector mounted horizontally with dimensions: 30.8, 21.8, 45.9, 87.5.

Vertical mounting: Shows the connector mounted vertically with dimensions: 30.8, 21.8, 45.9, 87.5.

When installed at 45 degrees: Shows the connector mounted at a 45-degree angle with dimensions: 30.8, 21.8, 45.9, 87.5, 41.6, 18.3, 111.5, 45.7, 20, 77.3, 5.2, 5.9, 26.5, 11.8, 29.8, 92.3.

Unit: mm