KEYENCE

FT-H40K

Sensor Head: High temperature model

$C\epsilon$

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

Specifications

Model		FT-H40K
Type		High temperature, Mid-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)		100/ø7.5 mm 3.94"/ø0.30" 150/ø6 mm 5.91"/ø0.24" 300/ø11.5 mm 11.81"/ø0.45"
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/s², 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.

Dimensions

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

FT-H40K/50/50K

ø3.6 (4-core × 0.18 mm²)
Cable length: 3 m

Centre of the detection zone ø11

Centre of emitted light

* Head connection connector OP-42367 is attached to end of head cable.

Mounting bracket (accessory)

2 × M3 screw

6 × R1.8

SUS304 t = 1.5

SUS304 t = 2.0

* Includes two M3 screws, length: 30 mm (stainless steel)

Horizontal mounting

Vertical mounting

When installed at 45 degrees

Unit: mm