KLSD–01A Infrared Temperature Sensor with External Laser: Reliable Temperature Measurement for Diverse Applications

From industrial processes to agriculture, aerospace, and HVAC/R, the KLSD-01A offers accurate temperature measurement with fast response time and high optical resolution. With its compact design and durable construction, it is an ideal choice for ensuring safety, quality control, and productivity in diverse environments.

Applications

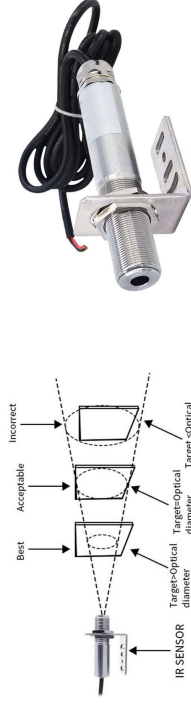| Industrial processes	Glass Manufacturing	Chemical and petrochemical	Cement industry

Sensor probe

Internal structure
(Integrated into the body by optical system, photodetector, electronic cable, signal processing, etc.)

Stainless steel bracket

Electrical wire
(High quality tinned shielded wire, fast and stable signal output)

AICE TECH

AICE TECH

AICE TECH

AICE TECH

Incorrect
Acceptable
Best

Target>Optical diameter
Target-Optical diameter
Target<Optical diameter

IR SENSOR

AICE TECH

Benefits

Accurate temperature measurement

The KLSD-01A provides precise results with high optical resolution and fast response time.

Fast response time and high optical resolution

The KLSD-01A has a 20:1 optical resolution and response time of 150ms.

Easy integration with industrial processes

The compact design and 4-20mA output signal make it a breeze to integrate with your existing processes.

Durable construction and compact design

The KLSD-01A is rugged and built to last, with an IP65 protection level.

Ensured safety, quality control, and productivity

Adding to the efficiency and reliability of its performance, the KLSD-01A can help ensure safety, quality control, and productivity.
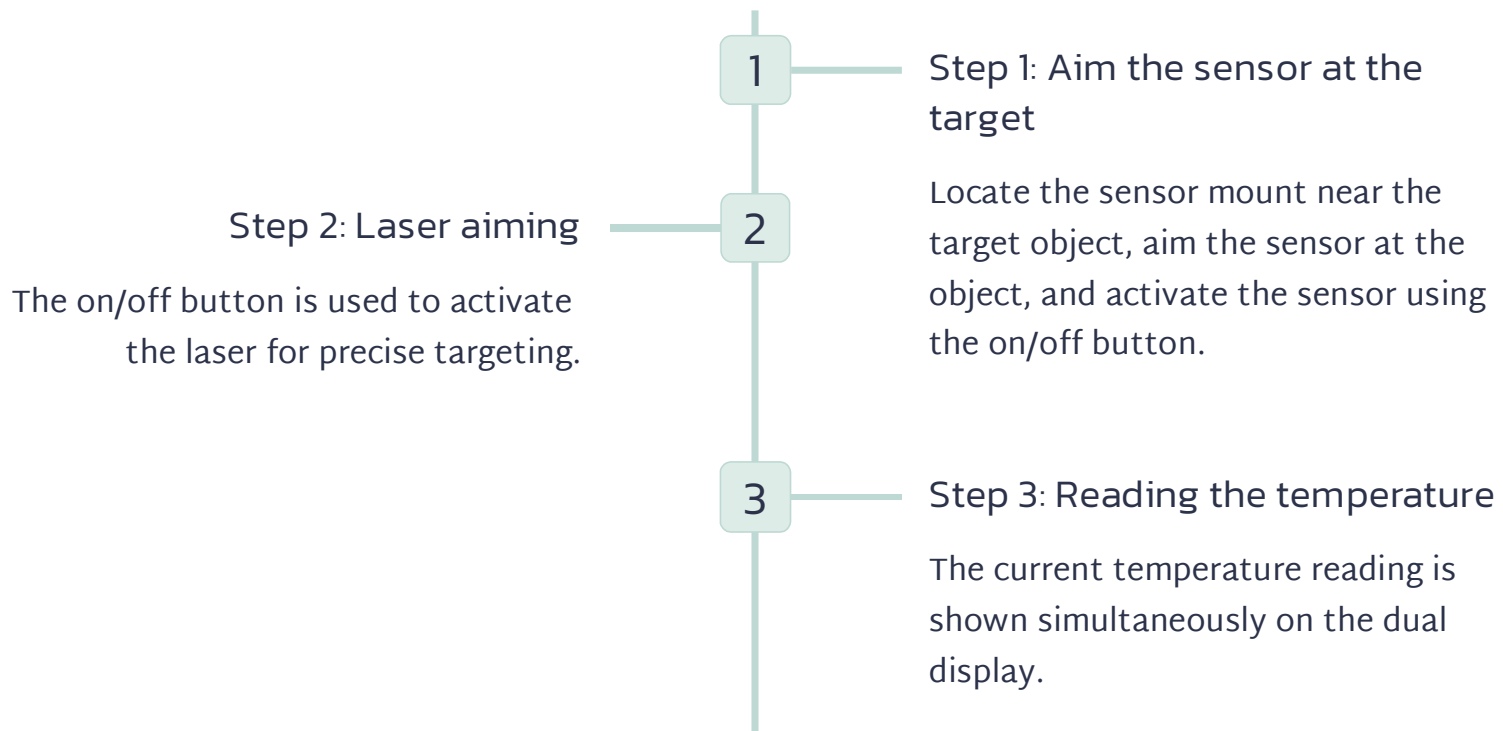
Overview

The KLSD-01A Infrared Temperature Sensor with External Laser is designed for highly accurate temperature measurement in various settings. Whether you need to monitor production lines or measure the temperature of the food you process, the KLSD-01A provides reliable and precise results. With its durable construction, compact design, and easy-to-use interface, it can integrate with your industrial processes with minimal disruption.

Specifications

Temperature Range	0~1000°C (32~1832°F)
Spectral Response	8~14µm
Accuracy	±1.5% of reading ±2°C (3.6°F)
Emissivity	0.95 fixed
Optical Resolution	20:1
Response Time	150ms
Output Signal	4~20mA
Power Supply	24VDC
Maximum Current	50mA
Protection Level	IP65
Storage Temperature	-20~80°C (-4~176°F)
Ambient Temperature	0~60°C (32~140°F)
Display	Dual display - IR temperature measurement
Size	121x59x45mm
Weight	160g

How it Works

1 — Step 1: Aim the sensor at the target

Step 2: Laser aiming **2**

The on/off button is used to activate the laser for precise targeting.

Locate the sensor mount near the target object, aim the sensor at the object, and activate the sensor using the on/off button.

3 — Step 3: Reading the temperature

The current temperature reading is shown simultaneously on the dual display.

Contact Information

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