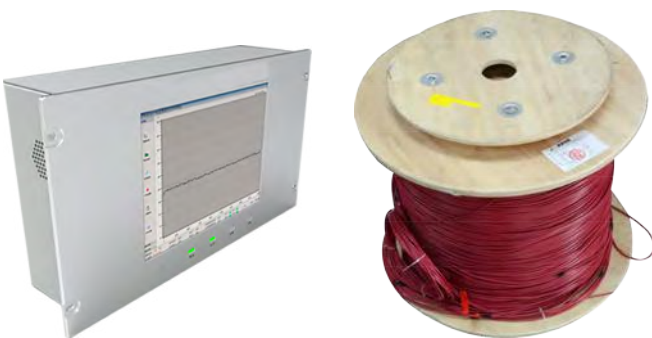


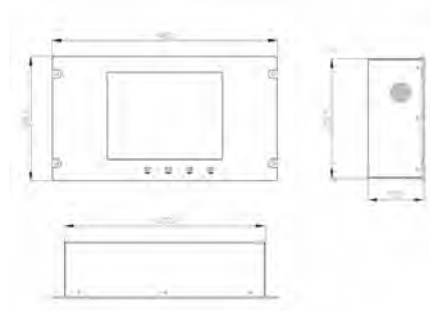
Optical fiber linear heat detector (LHD)

Optical fiber linear heat detector (LHD) is a continuous distributed temperature sensing system that integrates Raman scattering effect and Optical Time-Domain Reflectometry (OTDR).

The detector emits laser pulses into the sensing fiber, where backscattered light carrying temperature-dependent Raman signals is generated along the entire fiber path. By analyzing these backscattered signals, the LHD reconstructs real-time temperature profiles, enabling continuous heat detection and early fire alarm across the monitored area.



- Certificate: ISO
- Standard: GB 16280, GB 50116
- Feature: Long distance, no blind spot, real-time
- Temperature: -10°C to 50°C
- Humidity: 0% to 95%, non-condensing
- Installation: Cabinet or wall mounting
- Protection: IP20



Main parts and material

Main unit	Steel cabinet, high-speed pulsed fiber laser, with 250MHz signal processing circuit	Optical fiber	Plastic core
Networking interface	LAN, Serial RS485/232, VGA, HDMI	Others	Positioning accuracy ± 1m, temperature accuracy ± 1°C, standard alarm length 0.5m/3m

Available size

Type	Temperature rating	Operating voltage	Alarm current	Channel range	Main unit W x H x D (mm)	Ref. No.
Resettable	60°C, 70°C, and 85°C	24 VDC	3.0 A	4, max 10 km	482 x 267 x 120	AE8201 (ISO)

Note: For temperature rating, it can be set fixed temperature and rate-of-rise temperature.