Product family overview



Area Hotspot Detection System

Fully automatic detection and alarming of overheated surfaces

SICK
Sensor Intelligence.

Area Hotspot Detection System



Technical data overview

Application	Battery production, storage, mounting and recycling (cells, modules and packs) Charging stations (electric vehicles, manned forklift trucks and AGVs) Storage and handling of waste and recycling material Electrical infrastructures (transformer stations, substations, power plants) Hazardous goods storage and handling (fuel, chemicals) Machine spaces (ships, manufacturing plants, emergency generators) Cargo hold monitoring in shipping (car ferries, car transport ships, cargo holds)
Ambient operating temperature	–20 °C ... +50 °C

Product description

The Area Hotspot Detection System uses thermal imaging cameras to detect overheated surfaces on objects like batteries, silo walls or piping. Early, proactive detection of hotspots can prevent fires. The system tracks the temperature of the measured object continuously and completely automatically. This can be done across multiple defined fields of interest with differing temperature thresholds. If a defined threshold is exceeded, an alarm is triggered and sent to a higher-level system, which makes it possible to react quickly to the detected fire hazard.

At a glance

- Fully automatic detection of overheated surfaces
- Definition of several fields of interest with different temperature thresholds
- Data transmission over TCP/IP, ProfiNet, and I/O interfaces
- Output of measurement data with thermal images for hotspot monitoring logs
- Indoor and outdoor application thanks to proven infrared technology

Your benefits

- Fire prevention through early detection of overheated surfaces
- Targeted alarms in various monitoring areas that are triggered when the temperature threshold is crossed
- Flexible in use and easy to integrate
- Minimal operating and maintenance costs
- Ready for use at all times no matter what the weather
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Fields of application

- Manufacturing of battery cells, modules and packs
- Handling, storage and assembly of batteries
- Battery recycling
- Electrical infrastructure
- Bulk material storage
- Storage and handling of waste, recyclables and hazardous material

Ordering information

Other models and accessories ➜ www.sick.com/Area_Hotspot_Detection_System

- **Temperature measuring range:** –20 °C ... +1,000 °C
- **Output data:** alarms, Alarm data, Temperature data, system status, Thermal images
- **Items supplied:** Infrared camera, EC700, Various accessories

Aperture angle	Type	Part no.
29°	AHD129	On request
51°	AHD151	On request
95°	AHD195	On request

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com