



Conveyor Hotspot Detection System

Fully automatic detection of overheated bulk materials on conveyor systems

SICK
Sensor Intelligence.



Technical data overview

Supply voltage	24 V DC (12 V DC ... 36 V DC)
Application	Loading and unloading of cargo ships Loading and unloading of rail freight transport Transport between processing stages Infeed for ovens and mills Conveyor belts in production facilities, mines and power plants Conveyor belts in sorting and recycling systems Silo inlets and outlets Briquetting and pelletizing plants
Ambient operating temperature	-10 °C ... +50 °C
Integrated application	Temperature monitoring of fast-moving objects and materials

Product description

The Conveyor Hotspot Detection System object detection system cleverly uses thermal imaging cameras to detect a fire hazard early when transporting self-igniting materials. The system continuously and fully automatically measures the temperature of the conveyed goods and sends a signal to the higher-level system if the limit values are exceeded, for example to stop the conveyor belt.

At a glance

- Fully automatic detection of overheated conveyed goods
- Adjustable alarm thresholds for a wide range of materials
- Data transmission via TCP/IP interface and digital I/Os
- All-weather capable infrared technology

Your benefits

- Fire prevention through early detection of overheated materials
- Targeted warnings in the case of a variety of bulk materials with different temperature limits
- Optimal retrofitting through simple integration
- Minimal operating and maintenance costs
- Ready for use at all times no matter what the weather

Fields of application

- Loading and unloading of cargo ships
- Loading and unloading of rail freight transport
- Transport between processing stages
- Infeed for furnaces
- Conveyor belts in production facilities, mines and power plants
- Conveyor belts in sorting and recycling systems
- Silo inlets and outlets
- Briquetting and pelletizing plants

Ordering information

Other models and accessories → www.sick.com/Conveyor_Hotspot_Detection_System

- **Product segment:** Object detection systems
- **Application:** Temperature monitoring of fast-moving objects and materials
- **Temperature measuring range:** 0 °C ... +500 °C
- **Output data:** alarms, Alarm data, Temperature data, system status, Thermal images
- **Items supplied:** Infrared camera, TDC-E, Various accessories

Region of use	Type	Part no.
Europe, Middle East, Africa, APAC excluding Japan	CHD160TG	1141663
North America and Latin America	CHD160TA	1141664

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