Detector, Linear Heat Sensor
P/N 83-100003-001

Effective: August 2017
K-83-251

FEATURES

- ***Factory Mutual Approved for Off Road Vehicles***
- ***-40°F (-40°C) to 221°F (105°C) Operating Range***
- ***356F (180C), Nominal Alarm***
- ***100 meter roll***
- ***CE Approved***

DESCRIPTION

The LHS™ Cable provides economical detection in vehicle engine bays, fuel storage tanks and any other location subject to fire risks. The LHS Cable is a small diameter cable, capable of detecting heat from fire over its entire length. The sensor cable consists of a twisted pair of copper-coated steel conductors covered by a temperature sensitive insulation and protected by a plastic jacket. The heat from a fire causes the LHS Cable's special insulation to melt at a specific temperature, allowing the conductors to short, and signaling an alarm condition. After a fire, the entire length of cable must be replaced. Please contact Kidde Fire Systems for other temperature ratings or greater spool lengths.

When used with other non-powered detectors, either the LHS Base (Figure 1) or the Weather Pack Detection Connector Kit (Figure 2) may be used to terminate the LHS Cable.

With either termination option, the LHS Cable may be routed either as an inline detector or an end of line detector, which requires an end of line device compatible with system panel.

When using LHS Cable with powered detectors, Kidde requires terminating with the LHS Base.

The LHS Base consists of a terminal block, housed within an enclosure, pre-wired to leads affixed with quick connections compatible with the Detection Cable Harness. After terminating the LHS Cable to the LHS Base, the assembly is fully sealed for ingress protection.

The Weather Pack Detection Connector Kit affords a higher temperature alternative to the LHS Base but requires field fabrication to the LHS Cable and interfacing detection circuit or EOL device.

The kit bundles all components to terminate each inlet and outlet quick connection for a three conductor circuit. When affixed to the LHS Cable, cavity plugs, furnished by the installer, must be used in the center positions. When properly assembled and properly wrapped in heat shrink, the assembly is fully sealed for ingress protection.

ORDERING INFORMATION

Description	Part Number
LHS Base	83-132454-000
Connector Kit, Weather Pack Detection	83-132023-001

REFERENCED COMPONENTS

Description	Reference Data Sheet
Cable Harness, Detection	K-83-243

LINEAR HEAT SENSOR CABLE BASE SPECIFICATIONS

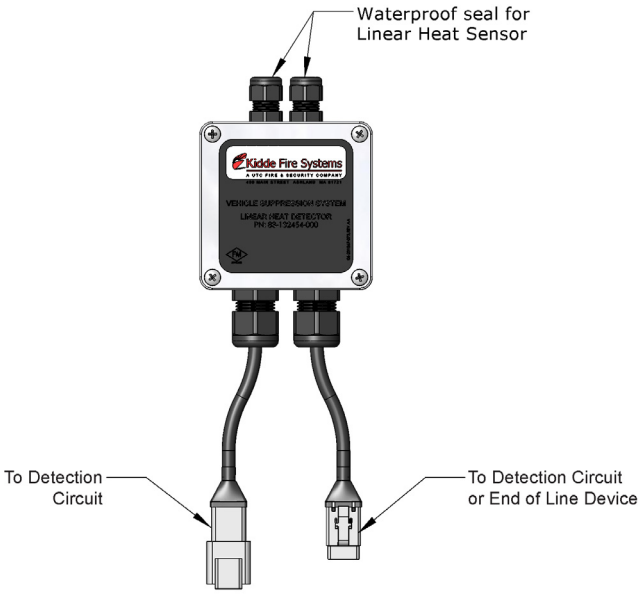

Figure 1. LHS Base

Description	Specifications
Operating Temperature:	-40°F to 200°F (-40°C to 93°C)
Weight:	less than 1 lb. (less than .5 kg)
Length:	3.15 in. (80 mm)
Height:	3.22 in. (82 mm)
Width:	2.18 in. (55 mm)

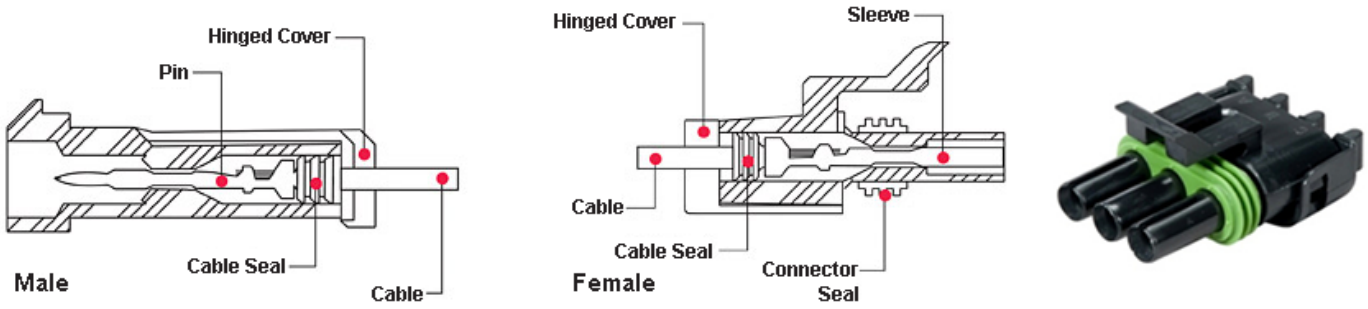

Figure 2. Weather Pack Detection Connector Kit

WEATHER PACK CONNECTOR KIT SPECIFICATIONS

Description	Specifications
Operating Temperature:	-40°F to 275°F (-40°C to 125°C)

EXPORT INFORMATION (USA)
Jurisdiction: EAR
Classification: EAR99

K-83-251 Rev AA

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