KVS-2025 Automatic Fire Sensing System

FEATURES

- Vehicle Fire System Control Panel
- Expandable, modular
- Programmable Time Delay
- Multiple system discharge capability
- Battery Backup Module
- Alarm Silence Switch
- LED annunciation of alarm, trouble, fire, operation
- Low Maintenance
- 12V or 24V electrical systems
- FM approved, including heavy-duty off-road vehicle approvals

DESCRIPTION

The Kidde® KVS detection system uses a fast response, infrared fire sensor, spot heat detection and/or Linear Heat Sensing Cable, all of which continually monitor the hazard area for a fire condition. Once a fire is detected, a signal is immediately sent to the control panel located in the operator’s area where a “FIRE” lamp is illuminated and an audible alarm is sounded. The control unit supplies engine shutdown and extinguisher discharge timing and activation. The dry chemical and/or foam system discharges suppressant routed through distribution hoses to nozzles located in the engine compartment, hydraulic network and other identified potential fire areas. The vehicle engine can be automatically shutdown to maximize effectiveness of the suppressant and to prevent re-ignition of the fire.

The Kidde KVS Automatic Fire Sensing and Suppression System is designed to detect and automatically suppress vehicle fires. The system responds to fires fueled by: diesel, gasoline, hydraulic fluid, and other fuels, including hydrogen.

Areas where fires can occur include:

- Engine Compartment:
  - Fuel Tanks and Lines
  - Hydraulic Reservoirs
  - Lines and Accumulators
- Heaters
- Transmissions
- Battery Compartment
- Electrical Distribution and Raceways

TECHNICAL DATA

- Power Requirement: 12 Vdc or 24 Vdc (9 to 32 Vdc)
- Quiescent (Fire Only): 2.4 W
- Extinguisher Valve Drive Requires 15 A for 30 ms
- Temperature Rating: -40°F (-40°C) to 158°F (70°C)
- Automatic Interface
- Normally-Open 3 Amp Contact Shorts to Ground when in Alarm
- Engine Shutdown
- Fuel Pump and/or Fuel Valve Shutdown
- Fan Shutdown
- Delay System/Engine-Shutdown Button (15 sec. delay per activation)
- Alarm Silence, Reset, Indicator Test Button
- Manual Discharge Input
### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Shipping Weight</th>
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</thead>
<tbody>
<tr>
<td>83-132002-001</td>
<td>KVS-2020 Control Panel</td>
<td>1 lb.</td>
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<tr>
<td>83-132001-001</td>
<td>KVS-2020 Infared Sensor</td>
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<td>83-132003-001</td>
<td>KVS-2020 Expansion Module</td>
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<td>83-132015-001</td>
<td>KVS-2020 End-of-line Device</td>
<td>1 lb.</td>
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<td>83-132016-001</td>
<td>KVS-2020 IR Test Kit</td>
<td>2 lb.</td>
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<td>83-132017-001</td>
<td>KVS-2020 Backup Battery Assembly,</td>
<td>5 lb.</td>
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<tr>
<td>83-100001-003</td>
<td>LHS (Linear Heat Sensing) Cable 100 m Reel (328 ft. approx.)</td>
<td>10 lb.</td>
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</tbody>
</table>

**Figure 1. KVS-2020 Front View**

**Figure 2. KVS-2020 Side View**

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