

## ANSUL® Linear Detector (Fixed Temperature)

### Features

- Approved by Factory Mutual Research Corporation (FMRC)
- Red color-coded IP 67 rated connectors
- Excellent abrasion, chemical and UV resistance
- Two twisted spring steel conductors separated by a heat-sensitive insulator
- Available in six lengths for flexibility
- Easy to install - No special tools required

### Description

The Linear Detector, as illustrated, contains a twisted pair of spring steel conductors separated by heat-sensitive insulator. During a fire the insulator melts at 356 °F (180 °C) allowing the two spring steel conductors to make contact activating the CHECKFIRE Electric Detection and Control System.

The outer jacket material provide excellent resistance to ultra-violet (UV) light, abrasion and chemical permeation to a wide variety of acids, bases and organic solvents as well as simple gases.

The Linear Detector is available in six length ranging from 2 ft to 50 ft (0.61 m to 15.24 m) for installation flexibility.

### Applications

Linear Detectors are compatible for use with the CHECKFIRE 110, 210 and AXP Detection and Actuation systems. The detectors are designed for use on vehicles and equipment used in extreme environmental and physical conditions. Typical Industries were Linear.

Detectors used include:

- Mining
- Forestry
- Waste Disposal
- Landfills
- Construction
- Public Transportation
- Agriculture
- Aviation Support Equipment.



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### Mounting Guidelines

Linear Detectors are designed for use in extreme environmental conditions. For a proper and approved installation, the detector must be installed throughout the hazard area and secured at each connector and every 12 in. to 18 in. (305 mm to 454 mm) using rubber coated P-clamps or double-loop cable ties.



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### Spacing and Temperature Rating

When used with a vehicle fire suppression system, ANSUL® recommends routing throughout the hazard area to allow direct exposure to heat resulting from a fire. Temperature for the hazard area must not exceed the Maximum Continuous Temperature of 250 °F (121 °C) for the Linear Detector.

### Approvals

When used with the CHECKFIRE 110, 210 and AXP Detection and Actuation System, the total system is FM approved under approval number 3050276.

## Technical Information

- Outer Jacket – fluoropolymer jacket
- Internal conductors – two twisted spring steel conductors covered with heat sensitive polymer.
- Cable diameter – 5/32 in. (4 mm)
- Wire resistance – 0.2 ohms / ft (0.656 ohm / m)
- Minimum bend radius – 2.5 in. (63.5 mm)
- Activation Temperature 356 °F (180 °C)
- Maximum continuous operating temperature 250 °F (121 °C)

## Ordering Information

Detector Part No.	Length	
	ft	(m)
439406	2	(0.61)
439478	5	(1.53)
439480	10	(3.05)
439408	20	(6.10)
439410	30	(9.15)
440765	50	(15.24)

**Note:** The converted metric values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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