



## Addressable Rate-of-Rise Heat Detector with Built-in Isolator

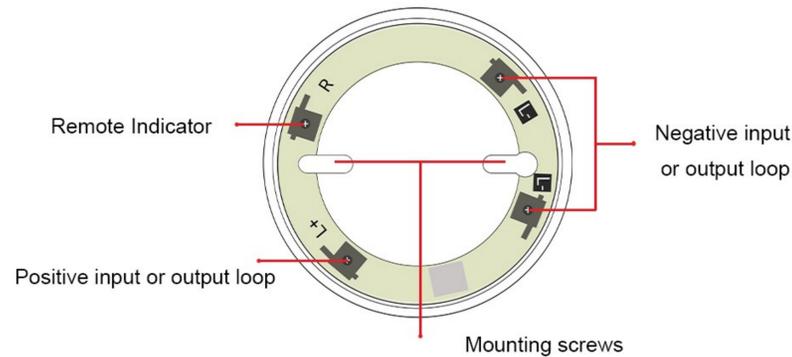


### S2-ARD-300 Introduction

The S2-ARD-300 Addressable Rate-of-Rise Heat Detector can sense the ambient temperature and its rate of increase, at temperatures above 54 to 70 °C, with a rising rate of 8°C/min and is activated and notify a fire. This detector is suitable for places where smoke-producing materials are present under normal conditions and the temperature rise rate is high.

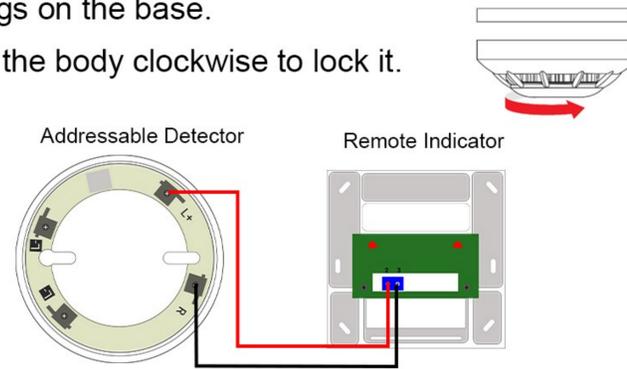
### Installation and Wiring

The different parts of the base are shown in the figure below.



- ◆ Choose a suitable place for installing the detector.
- ◆ Pass the loop output wires through the base and install the base on the ceiling using two screws.

- ◆ Connect the loop wires to the metal contacts on the base according to their polarity, as shown in the image above.
- ◆ If the detector isolator is considered active, the negative input and output wires should be connected to the separate negative connectors. Otherwise, the negative wires could be connected to the same negative connector.
- ◆ The addressable detector has the capability to connect a remote indicator of the conventional system. Refer to the figure below to connect it to the remote indicator.
- ◆ Place the detector frame onto the base as shown in the image, aligning the markings on the frame with the markings on the base.
- ◆ Rotate the body clockwise to lock it.



### Testing

- ◆ Connect the detector to the loop of the SENS addressable control panel.
- ◆ Power on the control panel.
- ◆ Add the detector to the panel manually or automatically, following the guidelines in the SENS addressable panel's manual.
- ◆ After the control panel recognizes the detector, its indicator LED will start flashing.
- ◆ Place a heat source close to the temperature sensor of the detector and raise its temperature; in case the temperature exceeds a value within the range of 54 to 70°C. The detector will send a fire alarm signal to the control panel, and the indicator LED will stay continuously lit until the panel is reset.

- ◆ Disconnect the detector from the base in normal operating mode, the panel will trigger a fault alarm. After reassembly, the fault condition will be automatically cleared.
- ◆ Any short circuit between the base connectors will cause a fault indication on the panel as well.

### Warranty

Make sure this device is only used with a compatible control panel and no destructive operations are performed on it otherwise, it will not be covered by the warranty. Products must be regularly inspected, serviced, and maintained to ensure proper functionality.

### Troubleshooting

In case of any issues with the addressable detector, troubleshooting and repair of the detector parts must be done by the after-sales service department of SENS company, or an authorized representative recommended by the company.

### Technical Specifications

Design Standard	EN 54-5,54-17
Detector Class	A2R
Power Supply Voltage	27V
Stand-By Current	0.6mA @ 27V
Alarm State Current	1.3mA @ 27V
Alarm Temperature	54 to 70 °C
Operating Temperature	-10 to 70 °C
Humidity	95% (without condensation)
Dimensions	50×100 mm
Weight	100gr

## Addressable system loop diagram

