



## Secure and Safe

### Fire Alarm and Security Systems

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## Addressable Optical Smoke Detector

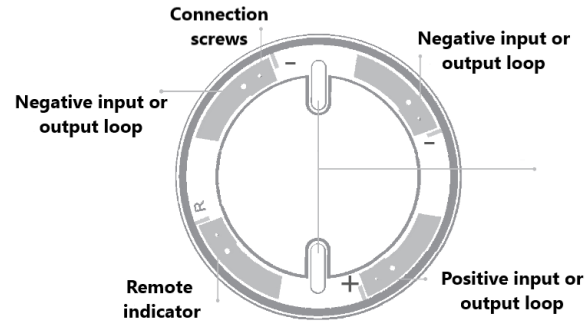
### S2-ASD-300

#### Introduction

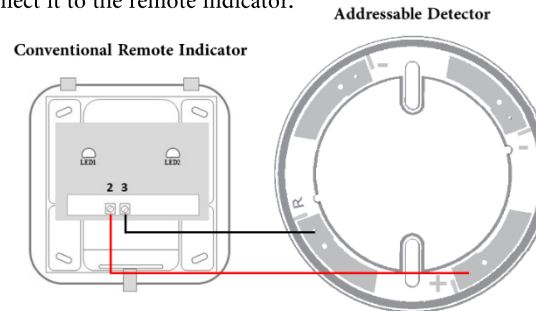
S2-ASD-300 is an addressable smoke detector that uses the scattering IR light idea to detect different types of smoke, even with extremely fine particles. This detector is suitable for places where fires develop slowly, and the probability of smoke spreading is higher than flames.

#### Installation and Wiring

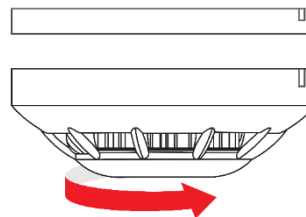
The different parts of the base are shown in the figure below:



- Choose a suitable place for installing the detector.
- Pass the loop output wires through the base and install the base on the wall using two screws.
- Connect the loop wires to the metal contacts on the base according to their polarity, as shown in the image below .
- 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 s markings on the base.
- Rotate the body clockwise to lock it.



#### Testing

- Connect the detector to the loop of the SENS addressable control panel.
- Connect the control panel to the power supply.
- Add the detector to the panel manually or automatically, following the SENS addressable panel manual guidelines.
- After the detector is recognized by the control panel, its indicator LED will start flashing.
- Spray smoke into the detector chamber using a smoke spray. The detector will send a fire 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.

#### Technical Specifications

|                       |                            |
|-----------------------|----------------------------|
| Design Standard       | EN 54-7                    |
| Power Supply Voltage  | 27V                        |
| Stand-By Current      | 0.6mA @ 27V                |
| Alarm State Current   | 1.3mA @ 27V                |
| Operating Temperature | -10 to 70 °C               |
| Humidity              | 95% (without condensation) |
| Dimensions            | 50×100 mm                  |
| Weight                | 120gr                      |

#### 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.

# Addressable system zone diagram

