Essentia Heat Detector

EDE221-I

Instruction Sheet

R10079GB3

Schneider Electric
www.se.com/buildings

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Safety Information

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Related Information

For technical specifications, please refer to the Product Datasheet for FFS06720302 on se.com.

1 Essentia Heat Detector EDE221-I

The addressable Essentia heat detector EDE221-I (FFS06720302 and FFS06720302SA) features two heat sensors located laterally to ensure accurate heat detection in all orientations.

1.1 Feature highlights

- Uses digital communications.
- Compatible with existing bases.
- Has tri-colored LED status indicator and remote indicator output.
- The detector can be locked to the base.
- Eight operating modes (as stated in figure 2).

1.2 Application

Fire detectors should be installed in accordance with all local and national laws and codes of practice.

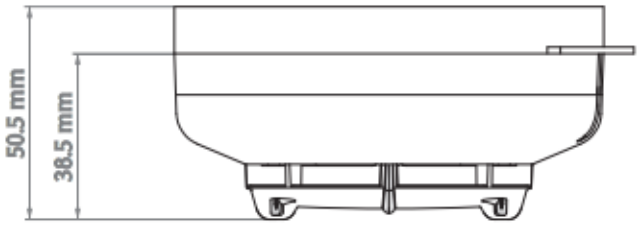
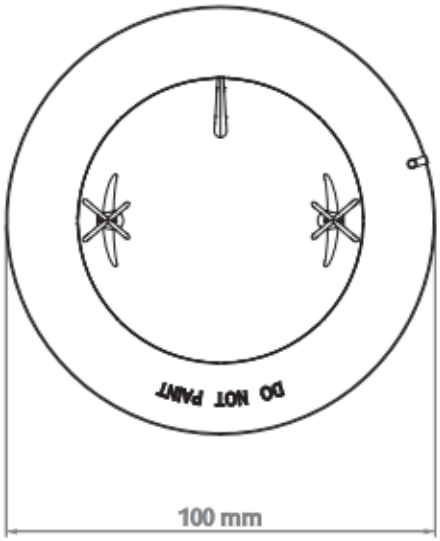
A “R” suffix detector is suitable for areas such as unheated warehouses in which the ambient temperature may be very low for long periods.

A “S” suffix detector is suitable for areas such as kitchens and boiler rooms, where large rapid temperature changes are considered normal.

1.2.1 Essentia Heat Detector response modes

*Note: Modes 6, 7 & 8 are exclusively available to fire control panels running Alcore Protocol (if supported).

Mode	Class EN 54-5	Application Temperature		Static Response Temperature		
		Typical	Maximum	Minimum	Typical	Maximum
1	A1R	25°C	50°C	54°C	57°C	65°C
2	A2R	25°C	50°C	54°C	60°C	70°C
3	A2S	25°C	50°C	54°C	60°C	70°C
4	CR	55°C	80°C	84°C	90°C	100°C
5	CS	55°C	80°C	84°C	90°C	100°C
6*	BR	40°C	65°C	69°C	74°C	85°C
7*	BS	40°C	65°C	69°C	74°C	85°C
8*	A1S	25°C	50°C	54°C	57°C	65°C

**Note: Mode 8 is not currently supported by Schneider Electric.

1.2.2 Dimensions