

Features

- ♦ Addressable Multisensor Detector
- ♦ Advanced embedded MCU
- Drift compensation makes it environment adaptable
- → Twin 360°visible LED driven by Control panel
- Manually addressing via a dedicated hand held programmer
- → Twotemperature response modes: A1R/A2
- Designed to comply with EN 54-5&EN 54-7





Description

VG-6647Multisensor Detector is fully comply with EN54-5&EN54-7 .It is contains an optical smoke sensor and thermistor temperature sensor. The smoke sensor and heat sensor are in two independent fire detection systems but occupies only one address point. With the pleasing appearance, it is easy to install and maintain.

Technical data

Operating Voltage:	16-28V(Modulated-pulse)
Standby Current:	≤0.5mA
Alarm Current:	≤1.0 mA
Wiring	Two-wire (non-polarized)
Heat Detector Classification	A1R/A2
Temperature range:	-10℃~50℃
Humidity:	≤95%RH, (40±2°C) No condensation
LED Alarm Indication:	Red light emitting
LED Polling Indication:	Red light flashing
IP Rating:	32

Installation

Dimensions: Showing on Fig.1

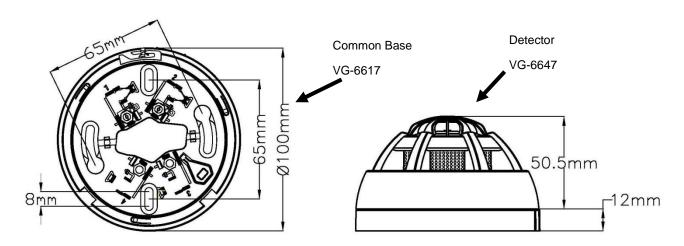


Fig.1Dimensions

♦ Mounting:



mounting Common Base.

Detector Head Mounting showing in Fig.2

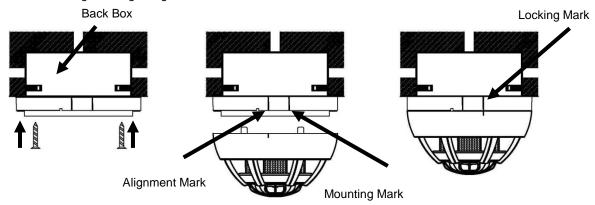


Fig.2 Mounting

Mounting Step

- 1. Install the Common Base into Back Box by using screw. (Back box is standard 86H50 box), Make sure the Common Base installed stable.
- 2. Connect the loop to Common Base Terminal 1, 2.
- 3. Inastall the detector head on to Common Base and direct Alignment Mark to Mounting Mark at same time.
- 4. Turn Alignment Mark aim to Locking Mark finishes the installation.

Wiring Details

- 1. Wiring Requirement: RVS-2*1.0 mm2 or1.5 mm2 wire for BUS, laid through metal tube (cable sink) or PVC tube.
- 2.1,2 Should connecting with fire alarm system detection loop (Non-polarized)
- 3.Loop wiring is shown in Fig.3

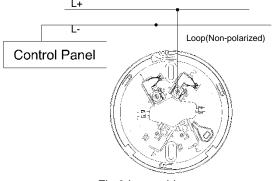


Fig.3.Loop wiring

Address setting

- 1.VG-6532Digital Programmer is used to write an address of the Detector.ConnectingProgarmmer with loop terminals:1,2 of the Detector before it installation .
- 2.Set address ,Pressing Write key, the address will be shown on the numeric display if successful. It is fail if there is no address. Please refer to VG-6532 Digital Programmer Manual for details.
- 3. Address range should be within 0-255. The address is unique in a loop.

Sensor setting

VG-6647 has two temperature response modes and one smoke sensitivity mode. The temperature modes are A1R &A2 and the smoke sensitivity is set at one default setting, which is equivalent to our VG-6627 Smoke detector Mode 2: 0.126 dB/m. The details of temperature modes please see the following table.



VG-6647 Digital Multisensor Detector

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Temp.	Class	Application Temperature		Static Response Temperature	
Mode	Class	Typical	Maximum	Min	Max
1	A1R	25	50	54	65
2	A2	25	50	54	70

- Mode 1 is Factory Setting.
- ♦ The letter "R" suffix means that the heat responseclass incorporates a rate-of-rise characteristic. It will give rapid response even when high rates of rise of air temperature starting at air temperaturessubstantially below the typical application temperature.
- The sensor response mode of VG-6647 can be set by Control Panel, please refer to the corresponding manual for details.

Testing

Warning: Power is switched off before all devices are installed completely.

The detector must be tested after installation or regular maintenance.

- Registration: The fire alarm control panel will registers the detector on line to check if the address of the detectors mounted is the same address as that registered in the control panel.
- Firecondition: After registration, make detector under fire conditions by using hot air generator and/or Smoke generator test whether the detector alarms normally and control panel displays its registered address.
- ♦ Reset: After testing, reset the detector through control panel.

Fault Finding

Detector Fault on Control Panel	Check wiring of Common base, no water no short-circuits and open circuit. Check the connection between detector and common base.
Nuisance alarm	The detector alarm frequently but there is no Fire and other unusual, then check whether the chamber in the detector is too dirty and needs to be cleaned Otherwise, the circuit may be broken.
Address Fault	Address is set incorrectly, Reset by VG-6532 Digital Programmer.

Cautions

- Dust cover on the detector shouldn't be removed between installation and acceptance test toavoidcontamination.
- If the detector gives fault warning after a long operation, first check if the chamber in detector are too dirty, or the position is changed. At last, other faults should be considered.
- Fire alarm test requirement as specified in the applicable local codes, we suggest to test every 6 month.
- ♦ Please put on the dust cover if the room is decorated or wall-painted to avoid contamination.

Limited Warranty

Wewarrants that the product will be free of charge for repairing or replacing from defects in design, materials and workmanship during the warranty period. This warranty doesn't cover any product that is found to have been improperly installed or used in any way not in accordance with the instructions supplied with the product. Anybody, including the agents, distributors or employees, is not in the position to amend the contents of this warranty. Please contact your local distributor for products not covered by this warranty.

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VSL3.780.052VGASY V1.04