JTY-GF-G3C

Conventional Photoelectric Smoke Detector

Description

JTY-GF-G3C Conventional Photoelectric Smoke Detector is a non-addressable detector, applicable to hotels, restaurants, office buildings, teaching buildings, banks, warehouses, libraries, computer rooms, switch rooms, vessels and etc. It can be connected with fire alarm control panel (FACP) through Addressable Zone Monitor. When the detector checks fire signal, it will send fire information to the control panel or addressable zone monitor unit by means of current changing. The detector keeps turning on the LED to indicate alarm state until it is reset.

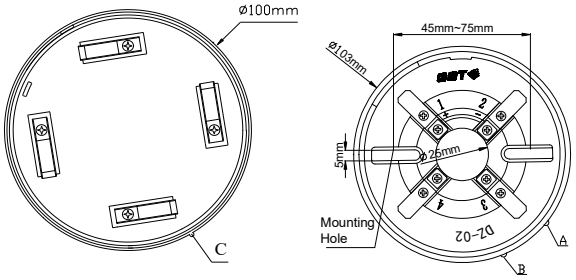
The chamber of the detector is developed by dual-band scattering theory. It has the ability to resist dust contamination and environmental light.

Features and Benefits

- Integrated algorithm of analyzing fire, recognize black smoke quickly.
- Drift sensitivity, suit to environment extensively.
- Removable innovative sensing chamber, easy for maintenance.
- Providing remote terminals connect with remote indicator.
- 3-level sensitivities

Terminals and Installation Holes

Below figures show the detector bottom and terminals of the base.



There are four terminals with marks on the base.

“1” is connected with output anode of addressable zone monitor unit or the anode of the power supply;

“2” is used as output, connected with anode of next detector (Terminal 1) and also connected with anode of remote indicator;

“3” is connected with output cathode of addressable zone monitor unit or the cathode of the power supply as well as the cathode of next detector;

“4” connects with the cathode of remote indicator.

Recommended Cabling

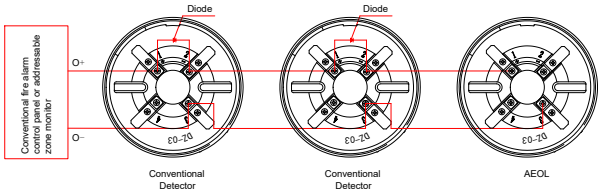
1.0mm^2 or above fire cable for all terminals laid through metal conduit or flame proof conduit, subject to local codes.

Application

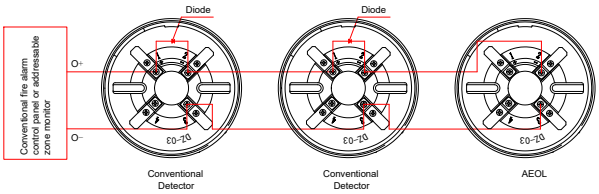
The G3C detector support 3 level sensitivity adjustment. The sensitivity level 3 is default, which can be modified by P-9910B programmer.

When connect the detector to conventional FACPs or addressable zone monitor unit in series through a GST-LD-8320 Active End of Line Unit connected to the end of loop, an 1N5819 Diode should be connected on the detector base.

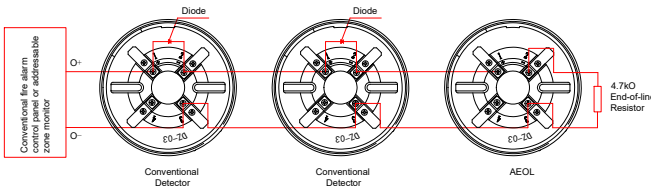
Used as the detector base, the AEOL is to install a conventional detector on it. The system connection is shown below:



When the AEOL is not used as the detector base, a cover should be put on it. The system connection is shown below:



When the detector is to be connected with conventional fire alarm control panel (the equipment inside the dotted lines is equivalent to a conventional FACP) or addressable zone monitor unit in series through an end of line resistor connected to the end of loop, there should be no diode connected on the base.



When a remote indicator connects with a few of detectors, a diode 1N5819 needs connecting with Terminal 4 of the orientation base in series and with anode of the remote indicator.

Technical Specification

Operating Voltage	24VDC(16VDC～28VDC)
Standby Current	≤60μA
Alarm Current	≤55mA
Indicator LED	Red, periodically flash once in polling Red, continue light in alarm Yellow, continue light in sensor fault or dirty
Remote indication output	Polarity-sensitive output, directly connecting with remote indicator (built in 10k resistor in series, max. output current is 2mA); don't illuminate when in normal; flash in alarming.
Max. ripple voltage	2V(peak to peak value)
Alarm reset	Instant power down (10s Min, 1.0VDC Max
Sensitivity setting	The sensitivity can be set by hand held programmer. There are three sensitivity levels: level 3 (default), level 2, level 1.
Wiring	Two-wire, polarity sensitive.
Environment Temperature	-10℃～+50℃
Relative Humidity	≤95%, non condensing
Material	Plastic, white
Ingress Protection Rating	IP2X
Dimension	Diameter:103mm Height: 55mm (with base)
Mounting Hole Spacing	45mm～75mm
Weight	About 120g

Ordering Information and Compatible Products

Part No.	JTY-GF-G3C
Device Name	Conventional Photoelectric Smoke Detector

Accessories and Tools

Part No.: DZ-03

Device name: Standard Base

Part No.: P-9910B

Device name: Handheld Programmer