

VG-6688

Reflective Beam Smoke Detector



Description

VG-6688 Reflective Beam Smoke Detector is designed as a single unit incorporating an infra-red transmitter and receiver. The signal generated in the transmitter element and reflected by the prism back to the receiver element is analyzed for the presence of smoke. When smoke particles enter the area between the unit and the reflector, obscuring the infra-red light and then cause a reduction in the signal. When the smoke level reaches the predetermined threshold, an fire is detected and alarm is activated.

VG-6688 Beam Detector can steer a laser onto the installation point of prism reflector. Then adjusting the vertical and horizontal knobs to the optics, as well as alignment indicator, make everything can be done by one person easily and simply. Moreover, VG-6688 is developed with a unique algorithm to self-adapt to the distance between the unit and reflector without any physical setting. Last but not least, the detector has three sensitivity levels settable for particular need of different applications.

VG-6688 Beam Detector effectively monitors large areas spanning up to 100 meters in commercial and industrial applications, making it an excellent choice for applications with high ceilings and large spaces, such as Warehouses, Leisure Centres, Shopping Centres, Cinemas, Museums, Hotels and Cathedrals or Historical Buildings. Due to its seamless integration to V-Great systems, the detector guarantees reliable performance.

Features and Benefits

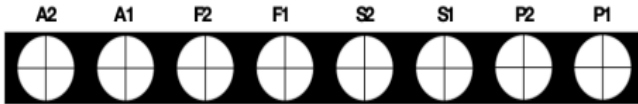
- ❖ Ability to detect when smoke is scattered over wide areas
- ❖ Equipped with laser and indicator make installation and alignment easy and simple for one person
- ❖ Drift compensation to signal deterioration from dust build-up, positional excursion and ageing transmitter
- ❖ Three adjustable sensitivity levels for different applications
- ❖ Built-in microprocessor enables intelligent judgment about fire and fault conditions
- ❖ Self-adaptation to distance range of 8-100 meters, no need of physical setting
- ❖ Detector's optical pathway is designed with strong anti-interference ability
- ❖ Attractive appearance and special structure meet IP54 without extra treatment
- ❖ Indicators and outputs of Fire and Fault

Certificates and Compliance

- ❖ Standards: EN54-12:2015
- ❖ Cetification: LPCB and CE

Application

There are three terminals with marks on the base.

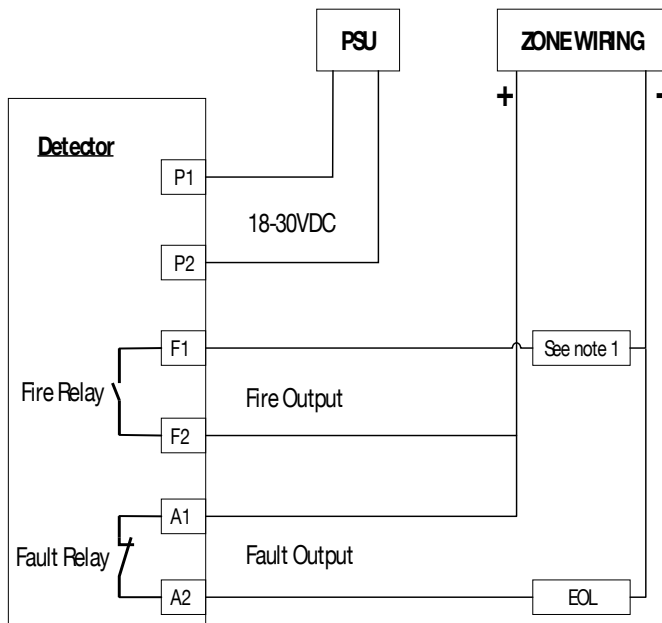


P1 & P2 : 24VDC power supply, non-polarized

F1 & F2 : Fire alarm output, normally-open dry contact

A1 & A2: Fault output, normally-closed dry contact

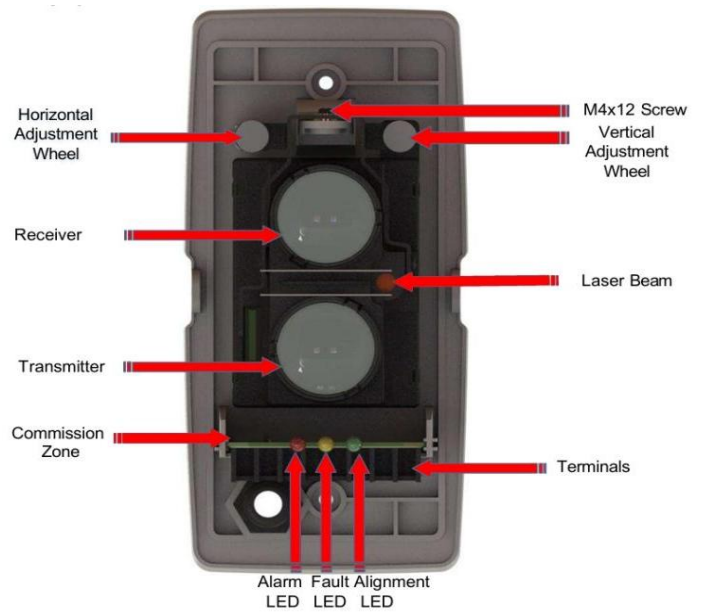
The typical wiring diagram of conventional mode are shown below.



Note 1 – This component is the Fire Resistor, and its value is specified by the Fire Control Panel Manufacture.

EOL – End of Line component – supplied by the Fire Control Panel Manufacture.

Product Structure



Technical Specification

Operating Voltage	Loop 24vdc (18v-30v)
Commission current	≤32mA
Standby current	≤15mA
Alarm current	≤20mA
Loop Voltage	24V (18V~30V)
Angle of Adjusting	-6 ° ~ +6 °
Maximum angular misalignment	± 0.5 °
Sensitivity Level	Level 1: 2.3dB Level 2: 1.8dB Level 3: 1.3dB (default)
Operating Environment	Temperature: -10~ +50℃ Relative Humidity ≤95%, non-condensing
Separation Distance	8m~100m
Monitoring Area	Maximum monitoring area: 14 x100 =1400m2 Maximum width: 14m
Material and Color	ABS, Titanium Gray
Dimensions	222mm X 107mm X 91mm
Ingress Protection Rating	IP54
Weight	435g
P-Code	010101116
Reflector	Model: FSB-6688 P-code: 30100027 QTY: 4 pcs

V-GREAT GLOBAL CORPORATION LIMITED
 Add.: Unit C,1/F, Fuk sing factory building 2, Walnut
 Street, Tai Kok Tsui, Hong Kong
 Web: www.vgreatglobal.com
 Email: inquiry@vgreatglobal.com

