

AT-FA-CBD109

Conventional Beam Detector



AT-FA-CBD109 Conventional Reflective Beam Detector is a non-addressable smoke detector with infrared optical beam, with excellent built-in microprocessor, the detector can carry out system adjustment, drift compensation of ambient data, and judgement of fire and fault through fixed algorithm, indicate states through LEDs, provide signals by output relays.

The detector is suitable for various applications including large storage zones, shopping malls, fitness centre, gyms, exhibition halls, hotel lobbies, printing houses, garment factories, museums and prisons.

It is also used for those areas with light smoke

Recommended Cabling & Typical Connections

1.0mm² above twisted pair connecting with K11, K12, K21 and K22.

1.5mm² above BV cable connecting with D1 and D2 of power line.

The terminals of the detector are shown as below.



D1 & D2 : 24VDC power supply, non-polarized

B1 & B2 : Loop connection for programmer, non polarized

K11 & K12 : Alarm output, normally open in standby state, close in fire condition

K21 & K22 : Fault Output, normally open in standby state, close in fault state

- The detector can be calibrated easily, which ensures that a single person can complete the adjustment in a short time.
- Self-diagnostic function can monitor internal faults.
- Wide operating voltage range, large monitoring areas.
- Self-diagnostic function can monitor internal faults.
- Dry contact output for fire and fault signals.
- Three sensitivity levels can be set in the field.

Technical Specification

Operating Voltage	Loop 24VDC (15V~28V)
Commission current	≤20mA
Standby current	≤12mA
Alarm current	≤22mA
Angle of Adjusting	-6 ~ +6
Maximum Angular Misalignment	0.5
Sensitivity Level	Level 1: the highest sensitivity Level 2: middle sensitivity Level 3: low sensitivity
Operating Environment	Temperature: -10C ~ +50C Relative Humidity ≤95%, non condensing
Length of Optical Pathway	8m ~ 100m
Monitoring Area	Maximum monitoring area: 14x100=1400m Maximum width: 14m
Material and Color of Enclosure	ABS, Gray
Ingress Protection Rating	IP20 without glue-seal IP66 through glue-seal treatment
Weight	450g
Dimension	206mm x 95mm x 95mm