

AT-FA-CBD109

Conventional Beam Detector

DESCRIPTION

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



FEATURES

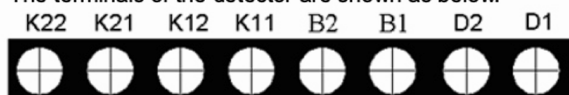
- The detector can be calibrated easily, which ensures that a single person can complete the adjustment in a short time.
- Self-diagnostic function can monitor internal faults.
- Wide operating voltage range, large monitoring areas.
- Self-diagnostic function can monitor internal faults.
- Dry contact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

SYSTEM COMPOSITION

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

FIRE ALARM SYSTEM

TECHNICAL SPECIFICATION

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