

SPECIFICATION

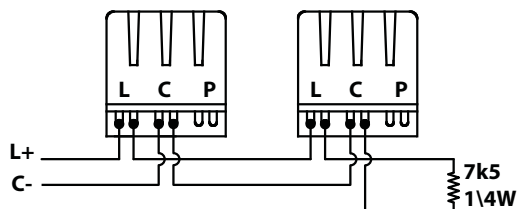
| | |
|------------------------|---|
| Model name | OKB3 |
| Detection methods | Scattering Light |
| Material | Polycarbonate |
| Colour | Black |
| Power Source | Between L and C DC19V (17 ~ 21V), 5mA Between P and C Max. DC12V 100mA resistance load |
| Consumption Current | 50μA MAX (20V imposed) |
| Sensitivity | 4%/m |
| Allowable Temp. range | -10°C ~ 65°C |
| Max. Detector Quantity | CPC-3 20 units CPC-3-24 20 units |
| Size | W40 x L40 x H45 |
| Weight | 55g (main body 38.5g, base plate 16.5g) |

New function of OKB3

1. Automatic sensitivity adjustment against dirt for detection part.
- 2 OKB3 is replaceable with OKB/OIB. (base plate is common.)

TERMINAL CONFIGURATION

- 1) Ensure correct stripped wire length by using gauge on the base.
- 2) Using posi screw driver slacken off locking screws on the base.
- 3) Insert stripped part of cable into appropriate slot and tighten screws.
- 4) Fit the detector on to the base.



TROUBLE SHOOTING

In event of fault as described underneath, please use the following method to examine the system

* Buzzer makes intermittent sound, and Fault lamp lights.

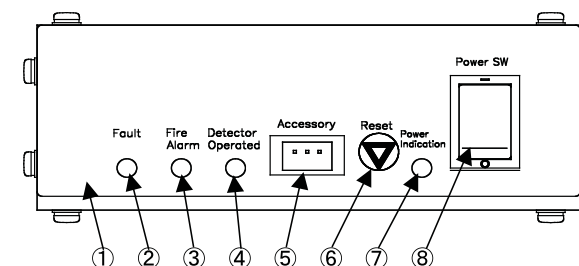
- Check the wiring throughout the panel, CPC-3 and detector. "L" and "C" are polarised.
- Make sure if the detector is mounted on to the base properly.
- Make sure wiring connections from CPC-3 to smoke detector(s) are terminated by an End-of-Line resistor.

* Unstable Detector Behaviour (Unpredictable alarm and reset conditions)

- If the system is being subjected to noise, this condition might make the panel activate. (If noise is predicted, please replace the existing wire with a shielded wire.)

NAME OF EACH PART

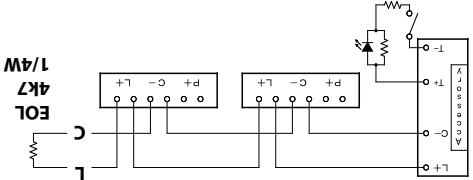
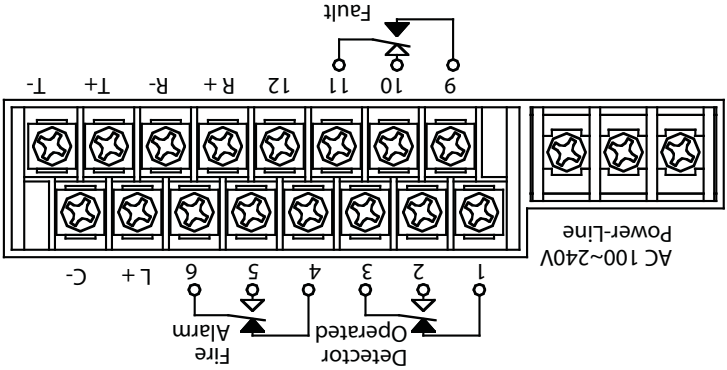
- 1) Body
- 2) Fault Lamp
- 3) Fire Alarm Lamp
- 4) Detector Operated Lamp
- 5) Accessory Terminal
- 6) Reset Switch
- 7) Power Indication Lamp
- 8) Power Switch



CONTROL UNIT SPECIFICATION

| | | | |
|----------------------|--|--|------------------------|
| Power Source | AC100 to 240V /60Hz 5.0VA or less | Ambient Temperature | 0~60°C |
| Output Voltage | 19V DC Max | Connectable detectors | OKB3,OKB,OIB |
| End-of-Line Resistor | 7.5K,1/4W | Field Wiring resistance Limit | Less than 20 ohm |
| Switch | Power switch (Latching Type) Reset (Momentary Type) | Max No. Detector | Less than 20 |
| Remote Reset | External switch contact [R+, R-] | Remote Test Equipment | Optional for OKB3 only |
| Remote Test | External switch contact, LED [T+, T-] (optional function) | | |
| Indicator | 1) Fault 2) Fire Alarm (2 detectors in alarm condition) 3) Detector Operated (1 detector in alarm condition) 4) Power indication | Yellow Red Red Green | |
| Relay | 1) Fault 2) Fire Alarm (2 detectors in alarm condition) 3) Detector Operated (1 detector in alarm condition) Relay Contact Ratings DC30V, 1A AC125V, 0.3A | "C" type contact "C" type contact "C" type contact | |
| Buzzer Sound | Intermittent : 5Hz 1 detector in alarm condition, 0.5Hz Fault (short/open) Continuous: 2 detectors in alarm condition (for Fire Alarm) | | |

TERMINAL CONFIGURATION



Note. 1. CPC-3 shall be connected in series wiring as diagram above.

- 2. Detector line shall be terminated in an End-of line resistor. (7.5K, 1/4W)
- 3. Maximum 20 detectors can be connected to the CPC-3.
- 4. Check polarity of detector wiring. (i.e. L, C)
- 5. If area is subjected to high frequency interruption or noise, shielded wire is recommended.
- 6. When using the P+ terminal wiring, use an external power source (DC12V), and during the RESET condition, disconnect the supply at the same time as the -ve side of the zone (C-) is disconnected by the controller. Limit the remote current to the external relay or indicator, to less than 100mA.

OPERATION MODE STATUS

| Condition | Indicator | | | | Terminal marking | | | | | | Buzzer Sound |
|------------------------------|---------------------|----------|---------------|----------------------|------------------|-------|-------------------|------------|-------|-------|--------------|
| | Power indication L1 | Fault L2 | Fire Alarm L3 | Detector Operated L4 | Fault | | Detector Operated | Fire Alarm | | | |
| | | | | | 9-11 | 10-11 | | 1-3 | 2-3 | 4-6 | |
| Supervision | ○ | - | - | - | OPEN | CLOSE | CLOSE | OPEN | CLOSE | OPEN | - |
| Power cut | - | - | - | - | CLOSE | OPEN | CLOSE | OPEN | CLOSE | OPEN | - |
| Line Interruption /Grounding | ○ | ○ | - | - | CLOSE | OPEN | CLOSE | OPEN | CLOSE | OPEN | Intermittent |
| 1 detector In alarm | ○ | - | ○ | - | OPEN | CLOSE | OPEN | CLOSE | CLOSE | OPEN | Intermittent |
| 2 detectors In alarm | ○ | - | ○ | ○ | OPEN | CLOSE | OPEN | CLOSE | OPEN | CLOSE | Continuous |