

# PCM-3C

## Intelligent Control Module

### General

PCM-3C Intelligent Control Module can use with PTW-3300 and PTW-3300S Fire Alarm Control Panels (FACPs). The module address should be set by the handheld programmer CP900 before installing. This module is used to switch an external power supply, which can be a DC power supply. It also supervises the wiring to the connected loads and reports their status to the panel as NORMAL, OPEN, or SHORTCIRCUIT. The PCM-3C has two pairs of output terminal inaction points available for fault-tolerant wiring and the status of the LED on the module is controlled by the panel.

### Features

- Built-in type identification automatically identifies these devices to the control panel.
- Integral LED “blinks” green each time a communication is received from the control panel and turns on in steady red when activated.
- LED blink may be deselected globally (affects all devices).
- High noise immunity (EMF/RFI).
- Wide viewing angle of LED.
- SEMS screws with clamping plates for wiring ease.
- Direct-dial entry of address 01– 159 for FlashScan loops, 01 – 99 for CLIP mode loops.
- Speaker, and audible/visual applications may be wired for Class B or A (Style Y or Z).

### Construction

- The face plate is made of off-white heat-resistant plastic.
- Controls include two rotary switches for direct-dial entry of address (01-159).
- The PCM-3C is configured for a single Class B (Style Y) or Class A (Style Z) Notification Appliance Circuit.

### Operation

Each PCM-3C uses one of 99 possible module addresses on a SLC loop. It responds to regular polls from the control panel and reports its type and status, including the open/normal/short status of its Notification Appliance Circuit (NAC). The LED blinks with each poll received. On command, it activates its internal relay. The PCM-3C supervises Class B (Style Y) or Class A (Style Z) notification or control circuits.



Upon code command from the panel, the PCM-3C will disconnect the supervision and connect the external power supply in the proper polarity across the load device. The disconnection of the supervision provides a positive indication to the panel that the control relay actually turned ON. The external power supply is always relay isolated from the communication loop so that a trouble condition on the external power supply will never interfere with the rest of the system.

Rotary switches set a unique address for each module. The address may be set before or after mounting. The built-in TYPE CODE (not settable) will identify the module to the control panel, so as to differentiate between a module and a sensor address.

### Specifications for PCM-3C

**Normal operating voltage:** 15 to 32 VDC.

**Maximum current draw:** 6.5 mA (LED on).

**Operating current:** 500µA max, 1 communication every 5 seconds 47K EOL resistor.

**Maximum NAC Line Loss:** 4 VDC.

**External supply voltage (between Terminals T10 and T11)**

**Maximum (NAC):** Regulated 24 VDC;

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**Max NAC Current Ratings:** For class B wiring system, the current rating is 2A; For class A wiring system, the current rating is 1A.

**Temperature range:** 32°F to 120°F (0°C to 49°C).

**Humidity range:** 10% to 93% non-condensing.

**Dimensions:** 124.6mm (L) x 124.6mm (W) x 35.6mm (H) (with the mounting plate).

**Accessories:** SMB500 Electrical Box; CB500 Barrier

- **UL Listed:** S24647
- **CCCF.**

### Product Line Information

**PCM-3C:** Intelligent Addressable Control Module.

**SMB500:** Surface mounting kit.

**CP900:** Address coder.

### Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.