PFC-6075R
FIRE ALARM & RELEASING CONTROL PANEL

POTTER
The Symbol of Protection

Features

- 75 Analog/Addressable Points in Any Combination
- 99 Software Zones
- NFPA 72 Compliant Smoke Sensitivity Test Built-In
- System Operates as Class A or Class B for SLC, P-Link and NACs
- 5 Amp Power Supply
- 2 NACS, Regulated, Rated at 3 Amps each listed for releasing
- 2 Input/Output (I/O) Circuits for system flexibility rated at 1 Amp each, ideal for manual release and abort
- Strobe Synchronization and System Wide Sync for Potter/ AMSECO®, Gentex®, Cooper Wheelock® and System Sensor® strobes
- Dedicated Alarm, Supervisory and Trouble Relays
- 1,000 Event History Buffer
- Metal Dead Front Cabinet for Clean Look
- Cabinet will house up to 18 AH batteries
- Optional two line DACT with UD-1000 that can report General, Zone or Point
- P-Link Communication Line for Annunciators and Accessories
- Ethernet Port for Programming and Network Connectivity
- E-Mail System Status, Reports and Event Information
- Size (W x H x D): 16" x 17" x 3 7/8"

NYC Fire Dept.
Certificate of Approval

UL S735   7165-0328:0195   6157

Product includes a 5 year warranty

The PFC-6075R is a versatile seventy-five (75) point analog/addressable releasing fire alarm control panel that utilizes the Potter/ Nohmi device protocol that has a complete line of initiating and control devices. The SLC is capable of 50 ohms of resistance and does not require the use of twisted or shielded wire. The signaling line circuit may be any combination of smoke sensors, heat detectors or modules. The PFC-6075R will operate with a small Pre-Action water based system or a complex multiple criteria agent suppression system.

The panel is specifically designed for releasing service with software zones for cross zoning, counting zones, timers and system release abort features. The display includes Pre-Discharge and Discharge LEDs to assist in providing system and releasing status. The releasing and additional releasing notification circuits may be expanded using the PSN-1000 intelligent power supply.

The complete system may be converted to Class A with a CA-6075 module. The CA-6075 provides the hardware necessary to convert the remote annunciators through the Potter P-Link connection protocol, the NACs and the SLC to Class A operation.

The panel has auto-programming learn mode that will not affect the existing system when adding or deleting a device. The system is capable of 99 software zones, cross zoning and counting zones. The panel is fully programmed from a PC based software program that will work with Microsoft XP, Vista or Windows 7.0 operating systems.

The PFC-6075 has an Ethernet connection for programming network connectivity and IP reporting communicator. The system has a built in e-mail function and will send system E-mail reminders based on user defined dates. The IP communicator is listed with the Sur-Gard III IP receiver.

The panel will support P-Link devices which include: the RA-6075R, RA-6500R and LED-16 Annunciators, RLY 5 Relay Module, SPG-1000 Serial Parallel Gateway (printer card), FCB-1000 Remote Ethernet/IP connection, DRV-50 LED driver for 50 LEDs, PSN-1000 Remote Power Supplies (10 Amp) and FIB-1000 P-Link Fiber Interface Module. In addition, the panel allows for the installation of the UD-1000 dual line telephone line digital alarm communicator transmitter (DACT). The UD-1000 is programmable for a single line or dual line and is compatible with Ademco's Contact ID or SIA DCS protocols.

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SLC Loop Accessories

The control panel may be connected with up to seventy-five (75) addressable devices or modules in any combination. The SLC is not restricted by any special wire requirements and may be wired with any wire that complies with the NEC.

SLC Loop Devices

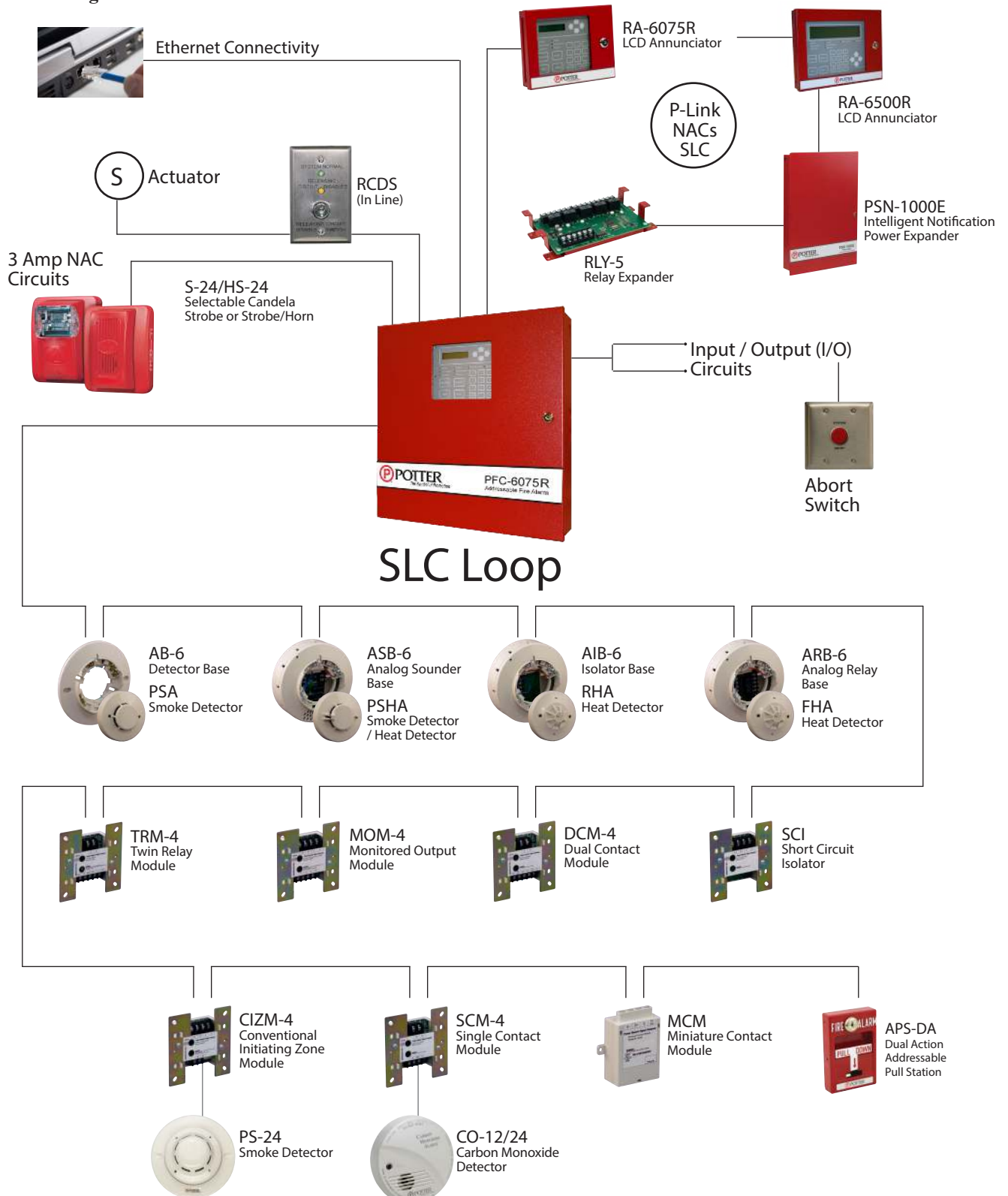| Device	Description
PSA	Analog Photoelectric Smoke Detector is a smoke detector with a listed obscuration of 1.02 to 3.83 percent per foot.
PSHA	Combination Analog Photo Electric Smoke/Heat Detector – a photoelectric smoke detector and a fixed temperature 135° Fahrenheit heat detector
FHA	Analog Fixed Temperature Heat Detector that is selectable from 135° F to 185°F
RHA	Analog Rate or Rise Heat Detector that has a fixed temperature selection from 135°F and 174°F and also will alarm if the temperature increase 12-15°F in one minute
DDA	Addressable Duct Smoke Detector
AB-6	6" round base that is mounted to an electrical box and wired for connection of one of the above sensors
AB-4	4" round base that is mounted to an electrical box and wired for connection of one of the above sensors
AIB	Isolator base that interrupts a short in a SLC and prevents the short from affecting protected devices on the loop
ARB	Addressable Relay Base that contains two relays controlled by the SLC. One relay is rated at 8 amps at 240 VAC/30VDC and the other is rated at 2 amps 240 VAC/30 VDC
ASB	Addressable Sounder Base that contains and addressable sounder module that may be configured for local, group and all call. The sounder follows the pattern sent to the device.

Modules

Device	Description
MCM	Miniature Contact Module provides a small foot print contact module for mounting inside an enclosure.
SCM-4	Single Contact Module is a standard contact module with an LED that mounts into a 4" square electrical box.
DCM-4	Dual Contact Module is a device that can monitor two distinct inputs with a single device or in a Class A mode.
TRM-4	Twin Relay Module provides two form C relays that simultaneously active when the module is triggered by the control panel. Each relay is rated for 2 amps at 24VDC or 0.5 amps at 125VAC.
MOM-4	Monitored Output Module switches monitored power and is activated by the control panel.
CIZM-4	Conventional Input Zone Module is used to connect conventional smoke detectors.
SCI	Short Circuit Isolator interrupts a short on the SLC and prevents the short from affecting protected devices on the loop.

P-Link Devices - (31 of each except when noted)

Device	Description
RA-6075R	LCD/keypad remote annunciator with a metal enclosure and key lock.
RA-6500R	160 Character LCD. Keypad remote annunciator with metal enclosure and key lock.
LED-16	LED remote annucniator capable of displaying alarms, supervisory, and trouble status for 16 zones.
PSN-1000	10 Amp Intelligent power supply.
RLY-5	5 Form C Relay Card.
SPG-1000	Serial/Parallel Printer Card, Optional Rack Mount.
FCB-1000	Fire Communications Bridge, only 1 may be added for remote IP Communicator.
FIB-1000	Fiber Interface Module, used in pairs to convert P-Link over multimode fiber, optional rack mount.

SLC Circuit Diagram

Ethernet Connectivity

RA-6075R
LCD Annunciator

RA-6500R
LCD Annunciator

P-Link
NACs
SLC

S Actuator

RCDS
(In Line)

PSN-1000E
Intelligent Notification
Power Expander

3 Amp NAC
Circuits

RLY-5
Relay Expander

S-24/HS-24
Selectable Candela
Strobe or Strobe/Horn

Input / Output (I/O)
Circuits

Abort
Switch

SLC Loop

AB-6
Detector Base
PSA
Smoke Detector

ASB-6
Analog Sounder
Base
PSHA
Smoke Detector
/ Heat Detector

AIB-6
Isolator Base
RHA
Heat Detector

ARB-6
Analog Relay
Base
FHA
Heat Detector

TRM-4
Twin Relay
Module

MOM-4
Monitored Output
Module

DCM-4
Dual Contact
Module

SCI
Short Circuit
Isolator

CIZM-4
Conventional
Initiating Zone
Module

SCM-4
Single Contact
Module

MCM
Miniature Contact
Module

APS-DA
Dual Action
Addressable
Pull Station

PS-24
Smoke Detector

CO-12/24
Carbon Monoxide
Detector

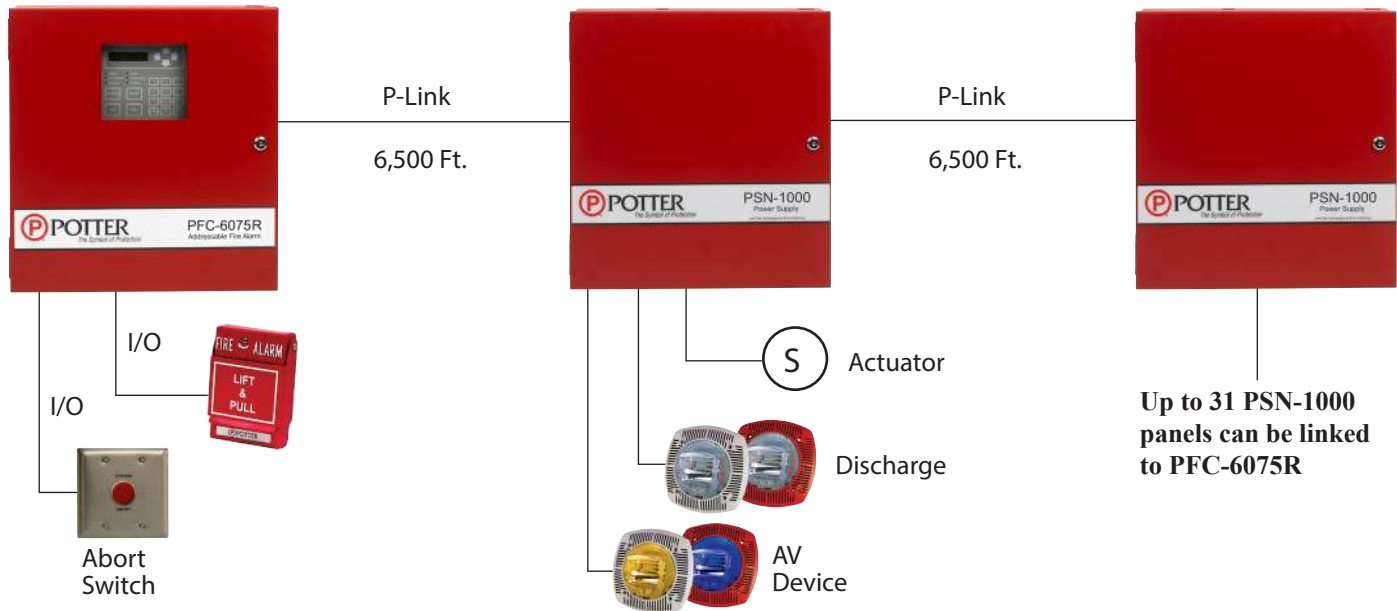**The Symbol of Protection**

Compatible Releasing Devices

Skinner – 73218BN4UNLVN0C112CZ
          73212BN4TNLVN0C322C2
Victaulic – 753-E Series

Mini Max – MX123 & MX200 w/ 8876677 & 889323
Viking – 11591, 11601, 11602, 13843, & 13844
TLX – PA0036

Panel with PSN-1000 Releasing Expansion

P-Link 6,500 Ft.

P-Link 6,500 Ft.

I/O

I/O

Abort Switch

S Actuator

Discharge

AV Device

Up to 31 PSN-1000 panels can be linked to PFC-6075R

Engineering Specification

The special hazard panel shall be a Potter PFC-6075R addressable releasing control panel. The panel shall have seventy-five (75) addressable points and have four (4) programmable outputs. The addressable points shall be made up of any combination of detectors, sensors, modules or relays with no limitation of type or number. The outputs shall consist of two (2) dedicated outputs rated at 3 amps each and two input/output (I/O) circuits. The I/O circuits, when programmed as input, shall be used for manual release, abort, or other dry contact type of inputs. When programmed as an output, each output shall be rated for a maximum of 1 amp. The panel shall have a RS-485 (P-Link) buss capable of supporting annunciators, intelligent power supplies, relay modules, LED driver modules, serial modules, and other modules as called out in the installation literature. The intelligent power supplies may be used as additional signal circuits or additional listed releasing outputs.

The panel and power supplies shall be compatible with common sprinkler solenoids and agent releasing actuators as outlined in the installation materials. The panel shall be capable of cross zoning, counting zones, and providing abort of output activation. The panel shall have timers for manual release delay and automatic time delay.

The display shall be plainly viewable through the window and include pre-release and release LEDs in addition to the typical fire alarm LEDs. The annunciator shall be an RA-6075R and/or an RA-6500R releasing annunciator that mimics the main panel controls. The panel and the annunciators shall be provided with a metal enclosure and viewing window. The enclosure shall have metal doors and they shall be provided with a key lock. The enclosure shall have space for housing up to 18 AH batteries and the panel shall be capable of charging 55 AH batteries.