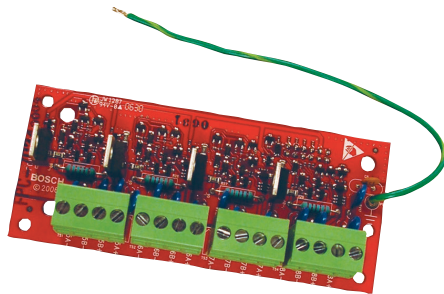




# FPC-7034 Four-Point Expander



- ▶ Adds four Class B (Style B) or Class A (Style D) initiating circuits to the FPD-7024 FACP
- ▶ For use with normally-open (NO) or normally-closed (NC) alarm contacts
- ▶ Compatible with two-wire or four-wire smoke detectors
- ▶ Up to 20 two-wire smoke detectors per circuit
- ▶ Easy installation due to plug-in design and screw terminal circuit connections
- ▶ No programming necessary

The FPC-7034 Four-point Expander doubles the number of alarm initiating device circuits on the FPD-7024 Fire Alarm Control Panel (FACP). These circuits are identical to the circuits on the FACP.

This plug-in module is automatically recognized by the control panel's firmware when power is restored to the system.

## Certifications and Approvals

| Region | Certification |                    |
|--------|---------------|--------------------|
| USA    | UL            | UL864, 9th edition |
|        | FM            |                    |
|        | CSFM          | 7165-1615:227      |

## Installation/Configuration Notes

### Compatible Products

The following products are compatible with the FPC-7034 Four-point Expander:

| Category       | Product ID | Product Description  |
|----------------|------------|--|
| Control Panels | FPD-7024   | Addressable or conventional FACP   |
| Detectors      |            | Refer to <i>FPD-7024 Smoke Detector Compatibility List Technogram</i> (P/N: F01U010790) for a list of smoke detectors compatible with the FPD-7024 FACP. |

**Note** When four-wire smoke detectors are used, power must be supplied to the detectors from either the control panel or an external power source.

### Mounting Considerations

The FPC-7034 mounts on the FPD-7024 control board, just to the right of the keypad. Use the four nylon stand-offs supplied with the expander.

### Initiating Circuit Wiring

Circuit connection for the expansion initiating circuits is identical to the on-board circuit configuration. Refer to the *FPD-7024 Installation Guide* (P/N: F01U008458) for wiring details.

Install a supplied EOL resistor at the end of each wiring run.

### Parts Included

| Quant. | Component  |
|--------|--|
| 1      | Four-loop expander board                         |
| 4      | 2.21 kΩ End-of-Line (EOL) Resistors (P/N: 25899) |
| 4      | Stand-offs (P/N: 26510)                          |
| 1      | Literature pack                                  |

### Technical Specifications

#### Environmental Considerations

|                          |                                |
|--------------------------|--------------------------------|
| Environment:             | Indoor, dry                    |
| Relative Humidity:       | Up to 95%, non-condensing      |
| Temperature (operating): | +32°F to +122°F (0°C to +50°C) |

#### Mechanical Properties

|                     |  |
|---------------------|--|
| Dimensions (HxWxD): | 2.0 in. x 4.5 in. x 1.3 in. (5.1 cm x 11.4 cm x 3.3 cm)      |
| Response Time:      | Choice of fast (500 ms) or programmable from 1 sec to 89 sec |

#### Power Requirements

##### per initiating circuit:

|                                   |                      |
|-----------------------------------|----------------------|
| Alarm Current (short circuit):    | 40 mA maximum        |
| Alarm Current (threshold):        | >25 mA               |
| Detector Standby Current (total): | 3 mA maximum         |
| Loop Supervision Current:         | 8.0 mA to 15.0 mA    |
| Trouble Current Threshold:        | <7 mA                |
| Voltage (supply):                 | 18.0 VDC to 25.5 VDC |

##### per FPC-7034 module:

|                    |                |
|--------------------|----------------|
| Current (standby): | 60 mA maximum  |
| Current (alarm):   | 160 mA maximum |

### Ordering Information

#### FPC-7034 Four-Point Expander

Doubles the number of alarm initiating device circuits on the FPD-7024 FACP

#### FPC-7034

**Americas:**  
 Bosch Security Systems, Inc.  
 130 Perinton Parkway  
 Fairport, New York, 14450, USA  
 Phone: +1 800 289 0096  
 Fax: +1 585 223 9180  
 security.sales@us.bosch.com  
 www.boschsecurity.us

**Europe, Middle East, Africa:**  
 Bosch Security Systems B.V.  
 P.O. Box 80002  
 5600 JB Eindhoven, The Netherlands  
 Phone: + 31 40 2577 284  
 Fax: +31 40 2577 330  
 emea.securitysystems@bosch.com  
 www.boschsecurity.com

**Asia-Pacific:**  
 Bosch Security Systems Pte Ltd  
 38C Jalan Pemimpin  
 Singapore 577180  
 Phone: +65 6319 3450  
 Fax: +65 6319 3499  
 apr.securitysystems@bosch.com  
 www.boschsecurity.com

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