



BOSCH

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D7053 Multiplex Input-output Module



- ▶ Use with D7024, DS9400M, or FPD-7024 Addressable FACP's
- ▶ Fits into a standard double-gang or four-inch square back box
- ▶ Easy addressing using rotary switches
- ▶ Low current draw
- ▶ UL Listed

The D7053 Multiplex Input-output Module is a general purpose device that monitors a normally-open (NO), supervised contact device and provides a separately controlled Form C relay output. The D7053 connects to the multiplex bus in either a Class A (Style 6) or Class B (Style 4) configuration. All operating power for the D7053 module is drawn from the control panel's multiplex bus.

Rotary switches allow convenient address setting. An on-board status LED on the module indicates normal, alarm, and trouble conditions and is visible on the module or on an attractive, low-profile faceplate.

Note The D7024 and DS9400M are **not** listed under UL864, 9th edition.

Certifications and Approvals

| Region | Certification | |
|---------|------------------|--------------------|
| USA | UL | UL864, 9th edition |
| | FM | |
| | CSFM | 7165-1615: 147 |
| | | 7165-1615:227 |
| NYC-MEA | 12-92-E, Vol. 14 | |

Installation/Configuration Notes

Compatible Products

The following products are compatible with the D7053 Multiplex Input-output Module:

| Category | Product ID | Product Description |
|----------------|------------|-----------------------------|
| Control Panels | D7024 | Addressable FACP |
| | D7024-EXP | Addressable FACP for export |
| | DS9400M | Addressable FACP |
| | FPD-7024 | Addressable FACP |
| Modules | D7039 | Multiplex expansion module |

Mounting

Mount the D7053 on a double-gang or four-inch square back box.

Wiring

Make connections to the terminals on the rear of the D7053. All terminals can accommodate up to 12 AWG (2.3 mm) wire; however, follow wiring guidelines specified by the National Electrical Code (NFPA-70). All wiring is power limited and supervised.

Note Do not use shielded wire.

Supervise the Class B input loop with the supplied EOL resistor.

Parts Included

| Quant. | Component |
|--------|---|
| 1 | D7053 module |
| 1 | 2.21 kΩ end-of-line (EOL) resistor (P/N: 25899) |
| 1 | Literature pack |

Technical Specifications

Circuit Designation

| | |
|----------|---|
| MUX Bus: | Supervised Class A (Style 6) SLC or Class B (Style 4) SLC |
| Input: | Supervised Class B (Style B) IDC |

Environmental Considerations

| | |
|--|--|
| Environment: | Indoor, dry |
| Radio Frequency Interference (RFI) Immunity: | No setup or alarm on critical frequencies in the range from 26 MHz to 950 MHz for field strengths less than 30 V/m |
| Relative Humidity: | Up to 93% non-condensing |
| Temperature (operating): | +32°F to +120°F (0°C to +49°C) |

Inputs

Type: One normally-open (NO) Class B (Style B) contact input supervised by a 2.21 kΩ EOL resistor (P/N 25899).

Mechanical Properties

| | |
|-------------|---|
| Color: | White |
| Dimensions: | 4.3125 in. (10.9 cm) square by 1.0625 in. (2.7 cm) deep |
| Material: | ABS plastic |
| Weight: | 3.9 oz (110 g) |

Outputs

| | |
|----------|--|
| Alarm: | Reports alarm and point number to FACP |
| Relay: | One set of Form C (NO/C/NC) contacts rated for 120 VAC at 0.5 A, 24 VDC at 1.0 A, resistive loads only |
| Trouble: | Reports trouble and point number to FACP |

Power Requirements (supplied from FACP's MUX bus)

| | |
|--------------------|---------------------------|
| Current: | 0.70 mA |
| Voltage (minimum): | 8 V peak (12 VDC nominal) |

Ordering Information

D7053 Multiplex Input-output Module **D7053**
 Monitors a normally-open (NO), supervised contact device and provides a separately controlled Form C relay output

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