

# DS7461i Single-zone Input Module

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Invented for life

- ▶ Supervises one power-limited protection loop
- ▶ Can be used in UL Listed fire and security applications
- ▶ DIP switch programmable

The DS7461i Single-zone Input Module works with compatible multiplex systems and uses one multiplex zone address. It is DIP switch programmable and provides a supervised input zone to connect conventional normally-open (NO) or normally-closed (NC) inputs.

## Functions

### Supervised Protection Loop

The power-limited protection zone is designed to monitor NO or NC dry contacts. It is supervised using 47 kΩ end-of-line (EOL) resistors.

The protection zone may be used as a magnetic contact by mounting a magnet in conjunction with the reed switch and removing the EOL resistor for the protection zone. The protection zone may not be used as a magnetic contact and used to monitor other contacts at the same time.

## Certifications and approvals

Region	Certification	
Europe	CE	2004/108/EC EMC Directive (EMC), 2006/95/EC Low-Voltage Directive (LVD)
USA	UL	AMCX: Central Station Alarm Units (UL1610, UL1635), APAW: Police Station Alarm Units (UL365, UL464), UOXX: Control Unit Accessories, System

Region	Certification	
		(UL864, 9th edition), UTOU: Control Units and Accessories - Household System Type (UL985)
	CSFM	California State Fire Marshal (see our website)

## Installation/configuration notes

### Compatibility Information

<b>Control Panels</b>	D9412GV2, D7412GV2, and D7212GV2 Control Panel
	D9412G, D7412G, and D7212G Control Panel
	D9124 Fire Alarm Control Panel
	DS7400Xi Control Panel
<b>Multiplex Modules</b>	D8125MUX Multiplex Bus Interface
	DS7430 Multiplex Expansion Module
	DS7436 Multiplex Expansion Module

The DS7461i Series Modules require a multiplex expansion module to connect to the control panels.

**Fire Applications**

For UL Listed fire installations, normally-open (NO) contacts must be used. For fire installations, order Multiplex-zone Fire EOL Resistors (P/N: 28010) in the quantity needed.

**Wiring**

Maximum Impedance: 4.05  $\Omega$  at +20°C (+68°F) nominal

Distance (approximate)	Size
76 m	0.65 mm
193 m	1.02 mm
250 ft	22 AWG
600 ft	18 AWG

Refer to the multiplex expansion module's reference guide for multiplex wiring requirements.

The recommended wiring to the control panel is quad (four-wire) cable. Do not use shielded or twisted pair cable.

**Notice**

If used in fire applications, 18 AWG wire is required.

**Ordering information****DS7461i Single-zone Input Module**

Provides a supervised input zone to connect conventional normally-open (NO) or normally-closed (NC) inputs. DIP switch programmable.  
Order number **DS7461i**

**Parts included**

Quantity	Component
1	Single-zone input module
1	Multiplex-zone EOL resistor (P/N: 26069)
1	Hardware pack
1	Literature pack

**Technical specifications****Circuit Parameters**

Initiating Device Circuit Type:	Class B (Style A)
Signaling Line Circuit Type:	Class B (Style 4)
Zone Requirements:	One multiplex address

**Environmental Considerations**

Temperature (Operating):	0°C to +50°C (32°F to +122°F)
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**Power Requirements**

Current Draw:	0.5 mA maximum
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