ICP-SDI-9114 SDI isolated bus splitter

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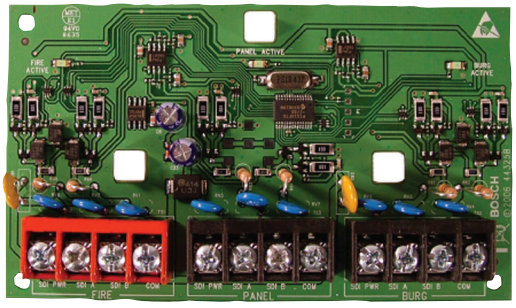

- Provides two independent, isolated SDI buses from a single SDI connection to the control panel
- Can be used to meet the requirements for a UL864 compliant combination control panel
- Does not affect the operation of the control panel or the associated SDI devices
- Additional power can be supplied by an external power supply

The ICP-SDI-9114 SDI Splitter allows the set up of two independent, isolated SDI buses from a single SDI connection on the control panel. When this accessory is installed with a control panel and wired to create separate SDI buses for fire and intrusion devices, the system is a UL864 compliant combination control panel.

Notice
The B9512G, B9512G-E, B8512G, and B8512G-E control panels can be used as combination systems per UL864, 9th edition requirements. When using only the SDIx bus programmed for legacy SDI communication, the ICP-SDI-9114 SDI Splitter will be required.

Notice
The D9412GV4, D9412GV3, D9412GV2, D7412GV4, D7412GV3, and D7412GV2 control panels can be installed as a combination system per UL864, 9th edition requirements when used with the ICP-SDI-9114 SDI Splitter.

Notice
The D7212GV4, D7212GV3, D7212GV2, and D7212G are not rated for Commercial Fire.

Functions

Connections
The SDI splitter has three sets of four-position SDI terminals: PANEL, FIRE, and BURG. The PANEL terminals are used for the SDI connection to the control panel. The terminals labeled FIRE and BURG are handled equally, and either terminal can be assigned to any collection of devices that require two separate buses. The SDI splitter does not affect the operation of the control panel or the associated SDI devices.

LEDs
The SDI splitter has three green LEDs (labeled PANEL ACTIVE, FIRE ACTIVE, and BURG ACTIVE) that monitor bus activity.

Power
The SDI splitter operates on power from the control panel, but the DC current is limited to 550 mA for each bus (FIRE and BURG), or enough power for two D1255 keypads; two D1255RB, D1256RB, or D1257RB keypads; two D1260 keypads, or one D1265 keypad. An external power supply, connected with a common ground, is required to provide power for devices that exceed the 550 mA limit.
A total of up to 32 SDI devices can connect to the output buses. A fault to the power or data connections of one bus does not affect the other bus.

Certifications and approvals

Region	Regulatory compliance/quality marks	
USA	UL	UOXX: Control Unit Accessories, System (UL864, 9th edition)
	UL	UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems (10th edition)
	CSFM	California State Fire Marshal (see our website)
	FDNY-CoA	6286 D7412GV4 D9412GV4 NYC COA 6286 2018-2021

Installation/configuration notes

Compatible Control Panels

- B9512G/B9512G-E
- B8512G/B8512G-E
- D9412GV4/D7412GV4/D7212GV4[1]
- D9412GV3/D7412GV3/D7212GV3[1]
- D9412GV2/D7412GV2/D7212GV2[1]

[1]The D7212GV4, D7212GV3, and D7212GV2 are not listed for commercial fire applications.

- D9124 Fire Alarm Control Panel

Mounting Considerations

Notice
UL requires that the SDI splitter be mounted in the same enclosure with the control panel, or in a separate enclosure in the same room within 20 ft (6.0 m) of the control panel and connected by conduit.

Wiring Considerations

Wiring from the control panel to SDI splitter should be 0.8 mm (22 AWG) to 2.0 mm (12 AWG) wire with a maximum wire length of 6.0 m (20 ft). The maximum impedance of the wire from the control panel to the SDI splitter must not exceed 1 Ω.
The maximum total wiring length for any single bus is 3048 m (10,000 ft). To determine the maximum impedance, maximum wire length and appropriate wire gauge for wiring from the SDI splitter to the SDI devices, refer to the specifications for each SDI device.

Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Parts included

Quantity	Component
1	SDI splitter
1	Hardware pack
1	Literature pack

Technical specifications

Environmental Considerations

Relative Humidity:	93% maximum, non-condensing
Temperature (operating):	0°C to +50°C (+32°F to +122°F)

Mechanical Properties

Dimensions (H x W x D):	127 mm x 74 mm x 25.4 mm (5 in. x 2.9 in. x 1 in.)
Weight:	0.13 kg (4.6 oz)

Outputs

Current (BURG bus):	550 mA maximum from control panel
Current (FIRE bus):	550 mA maximum from control panel

Power Requirements

Current:	30 mA maximum
Voltage (supply):	12.0 VDC nominal

Ordering information

ICP-SDI-9114 SDI isolated bus splitter

Provides the ability to set up two independent SDI buses from a single SDI connection on the control panel.
Order number **ICP-SDI-9114**

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