

B228 SDI2 8-Input, 2-Output Expansion Module



The B228 8-Input, 2-Output Expansion Module is an 8 points/zones supervised expansion device with 2 additional switched outputs that connects to control panels through the SDI2 bus. This module communicates back to the control panel all point status changes, and the outputs are switched on and off through a command from the control panel. The inputs and outputs are accessed through on-board screw terminal connections.

Functions

Sensor loop wiring

The module detects open, short, normal, and ground fault circuit conditions on its sensor loops and transmits these conditions to the control panel. Each sensor loop is assigned a unique zone number and transmits individually to the control panel. Through double zones inputs wiring, up to 16 zones can be expanded via each module.

Output loop wiring

The two outputs OC1 and OC2 shares one common terminal labeled +12V. These two outputs are independently switched outputs, and they can be configured in control panel programming to indicate system events.

Regulatory information

Australia New Zealand	RCM
Europe	PCE - EN61000-3:2007/A1:2011 EN50130-4:2011

- ▶ 8 points/zones supervised expansion device.
- ▶ 2 additional switched outputs.
- ▶ Communicates with control panel about all point status changes.
- ▶ Tamper switch connector
- ▶ LED to indicate module's power and current state.

Parts included

Quantity	Component
1	Module
1	Hardware pack
1	Interconnect cable
1	Installation manual

Technical specifications

Electrical

Current consumption (mA)	30 mA
Nominal voltage (VDC)	12 VDC
Output voltage (VDC)	12 VDC

Mechanical

Dimensions (H x W x D) (mm)	73.5 mm x 127 mm x 15.25 mm
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Environmental

Operating temperature (°C)	0 °C – 50 °C
Operating relative humidity, non-condensing (%)	5% – 93%

Connectivity

Loop inputs	Input contacts may be Normally Open (NO) or Normally Closed (NC). NOTICE! Normally Closed (NC) is not permitted in Fire installations.
Loop End-of-Line (EOL) resistance	1 k Ω , 1.5 k Ω , 2.2 k Ω , 3.3 k Ω , 3.9 k Ω , 4.7 k Ω , 5.6 k Ω , 6.8 k Ω , 10 k Ω , 12 k Ω , 22 k Ω , No EOL Split EOL3k3 / 6k8 with tamper Split EOL3k3 / 6k8
Loop wiring resistance	100 Ω maximum
Terminal wire size	12 AWG to 22 AWG (2 mm to 0.65 mm)
SDI2 wiring	Maximum distance - Wire size (Unshielded wire only): 1000 ft (305 m) - 22 AWG (0.65 mm) 1000 ft (305 m) - 18 AWG (1.02 mm)

Ordering information

B228 SDI2 8-Input, 2-Output Expansion Module

For Solution 4000 control panels.

Order number **B228 | F.01U.334.443**

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