ZX16D-EI01

DIGIPLEX
EVO

ZX16D
16-Zone Expansion Module V1.0

Instructions

PARADOX
S E C U R I T Y   S Y S T E M S
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The ZX16D 16-zone Expansion Module connects to the EVO control panel's Combus and acts as an interface between the control panel and any hardwired detection devices.
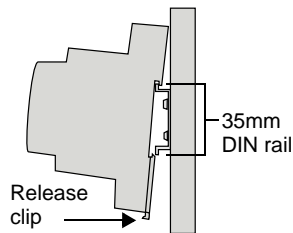
Compatibility

| EVO48, EVO192 |
| DGP-848, DGP-NE96, EVO96 |

Installation

Figure 1: DIN Rail Mounting

The ZX16D is a standard 35mm DIN rail module. Using the supplied DIN rail, the ZX16D can be mounted in any location. Alternatively, it can be mounted in a standard DIN rail enclosure. To attach the module, align the top of the DIN rail as shown in Figure 1 and apply pressure to the module until it clicks into place. To remove the ZX16D from a DIN rail, pull the release clip and remove the module.


35mm DIN rail
Release clip

To facilitate installation and servicing, the ZX16D terminals can be detached from the module. Wires can be labeled using the supplied tie wraps.

NOTE: The ZX16D does not support ATZ zone doubling.

Upgrading the Firmware

The ZX16D firmware can be upgraded through WinLoad using the CV4USB RS-485/RS-232 Converter. Refer to the firmware upgrade instructions found at: paradox.com - Software - WinLoad - Firmware Upgrade Instructions
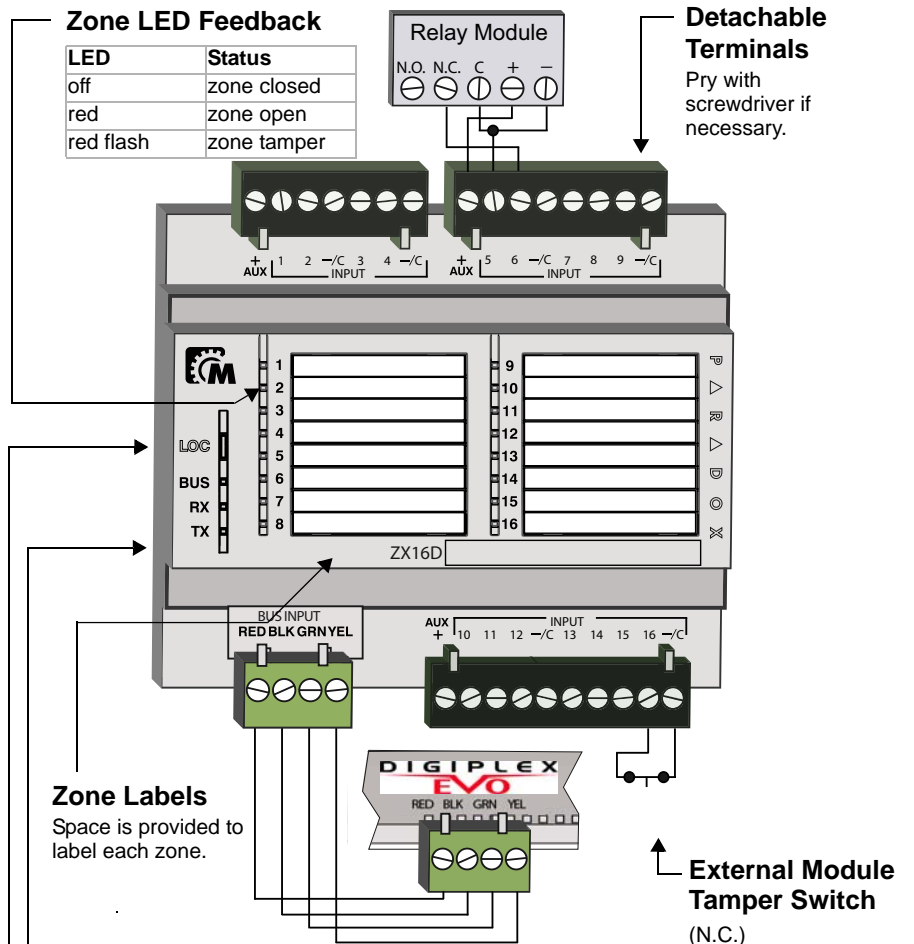
Zone LED Feedback

LED	Status
off	zone closed
red	zone open
red flash	zone tamper

Relay Module
N.O. N.C. C + −

Detachable Terminals
Pry with screwdriver if necessary.

Zone Labels
Space is provided to label each zone.

External Module Tamper Switch
(N.C.)

Communication LED Feedback

BUS	RX (from panel)	TX (to panel)	Condition
green	green flash	green flash	OK (panel communication in progress)
red	off	off	Short on GRN or YEL
red	off	green	Communication failure / Too many modules on bus
red	green	green	Bus lines reversed (GRN / YEL)
red flash	off	off	Bus power too low
red flash	green flash	green flash	Locate mode
blue flash	off	off	Firmware upgrade in progress

LOC Button

The ZX16D LOC button is used to enter Test Mode (see page 2).

A Module Locate can be performed using section [4002] (EVO) or [952] (DGP-48 / DGP-848). To end a module locate, press and hold LOC for 2 seconds.

Test Mode

To facilitate installation and verify correct wiring, the ZX16D features five Test Modes. In order to use this feature, the ZX16D module must be powered (Test Mode 1 requires a full bus connection).

To enter Test Mode, press the LOC button. The ZX16D enters Test Mode 1. Press the LOC button again to enter Test Mode 2, and so on. On the sixth press, the ZX16D will exit Test Mode.

Mode	Feature	LED Feedback	Instructions
Mode 1	Input assignment	RX flashes x 1	Entering Mode 1 illuminates all zones that have already been assigned in the control panel.*
Mode 2	EOL disabled Tamper disabled	RX flashes x 2	Entering Mode 2 sets the ZX16D for: **No EOL / No tamper**. To verify correct EOL / tamper wiring, open and close the zone and verify that the zone's LED reacts accordingly.
Mode 3	EOL enabled Tamper disabled	RX flashes x 3	Entering Mode 3 sets the ZX16D for: **With EOL / No tamper**. To verify correct EOL / tamper wiring, open and close the zone and verify that the zone's LED reacts accordingly.
Mode 4	EOL enabled Tamper enabled	RX flashes x 4	Entering Mode 4 sets the ZX16D for: **With EOL / With tamper**. To verify correct EOL / tamper wiring, open and close the zone and verify that the zone's LED reacts accordingly.
Mode 5	Zone test	RX flashes x 5	Entering Mode 5 illuminates all connected zones. When a zone is triggered, the corresponding zone LED will turn off, indicating correct wiring.

*This feature will be available on future versions.

EVO Programming

Module Tamper Recognition

Enabling this section will set zone input 16 as a module tamper input.

Section **[001]**		OFF	ON
Option **[1]**	Tamper Recognition	☐ **Disabled (default)**	☐ Enabled

Zone Input Speed

To calculate the zone input speed, multiply the Base Time Selection by the Time Value. (default = all inputs 600ms)

Base Time Selection - Even-numbered sections Even-numbered sections represent the base time selection for inputs terminals Z1 to Z16. Using the [▼] and [▲] keys, select a base time* value from 000 to 002. To save and proceed to the next section, Press [ENTER].	**Time Value** - Odd-numbered sections Odd-numbered sections represent time value for inputs Z1 to Z16. Enter a 3-digit decimal time value (000 to 255). Multiply by the selected base time.

Zone	Section	Base Time* / Time Value	Zone	Section	Base Time* / Time Value	Zone	Section	Base Time* / Time Value	Zone	Section	Base Time* / Time Value
Zone 1	**[002]**	___/___/___	Zone 5	**[010]**	___/___/___	Zone 9	**[018]**	___/___/___	Zone 13	**[026]**	___/___/___
	[003]	___/___/___		**[011]**	___/___/___		**[019]**	___/___/___		**[027]**	___/___/___
Zone 2	**[004]**	___/___/___	Zone 6	**[012]**	___/___/___	Zone 10	**[020]**	___/___/___	Zone 14	**[028]**	___/___/___
	[005]	___/___/___		**[013]**	___/___/___		**[021]**	___/___/___		**[029]**	___/___/___
Zone 3	**[006]**	___/___/___	Zone 7	**[014]**	___/___/___	Zone 11	**[022]**	___/___/___	Zone 15	**[030]**	___/___/___
	[007]	___/___/___		**[015]**	___/___/___		**[023]**	___/___/___		**[031]**	___/___/___
Zone 4	**[008]**	___/___/___	Zone 8	**[016]**	___/___/___	Zone 12	**[024]**	___/___/___	Zone 16	**[032]**	___/___/___
	[009]	___/___/___		**[017]**	___/___/___		**[025]**	___/___/___		**[033]**	___/___/___

*Base Time Selection	000 = Input Speed is X by 30 milliseconds.	001 = Input Speed is X by 1 second.	002 = Input Speed is X by 1 minute.

Technical Specifications

Input voltage:	Typically 12 to 16 Vdc
Current consumption:	68mA
Number of zones:	16 standard zone inputs
Operating temperature:	-20ºC to 50ºC (-4ºF to 122ºF)

Warranty