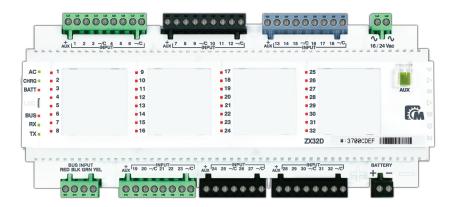


 Λ



Installation/Wiring:	??
Programming 1:	??
Programming 2:	??
Testing:	??
Total Time:	??

DRAFT

Description

Driven by the V32 main controller's 4-wire communication bus (Multibus), the ZX32D is a DIN module with 32 inputs for home automation or security with a status display for each input. The module offers a test mode with 5 different tests for input connectivity and operation, and full remote firmware upgradeability.

With its DIN rail design, the module saves space, and makes installation and wiring significantly faster and easier.

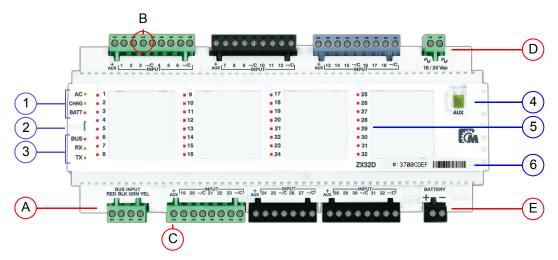
Features

- 32 zones or inputs
 - Diagnostic Mode: Zone LEDs turn on/off to identify assigned zone inputs, verify correct wiring (no EOL, EOL without tamper, EOL with tamper) and perform a walk test
- Built-in switching power supply with battery charging
- Auxiliary outputs providing up to 1A
- Remote firmware upgradeability via Multibus
- DIN rail design with on-board status display, and removable terminals
- · Programming via BabyWare software
- 4-wire connection to the Imperial Multibus with up to 900m (3000ft) distance
- Bi-directional LOCATE feature from module to software and vice versa

Overview

- 1) Power feedback LEDs
- 2) Module Locate feature activation (see "Bi-directional Locate Feature" on page 3)
- 3) Multibus input status LEDs
- 4) Local AUX output control
- 5) Input status LEDs
- 6) Product serial number

- A) 4-wire Multibus connection
- B) Device inputs
- C) Aux outputs
- D) AC/DC input: 16-24Vac or 16-36Vdc
- E) Battery connection: 12Vdc, 4Ah/7Ah gel cell



For LED status, refer to "LED Feedback" on page 3.

Related Topics

Installation / Wiring

- DIN Rail Enclosures
- System Diagrams and Wiring Tips
- Wire Gauge Selection

Features

- Bi-directional Locate Feature (see page 3)
- Remote Firmware Upgrade (see page 4)

BabyWare

BabyWare

Specifications

Power Input Voltage	16-24Vac (50 or 60Hz), or 16-36Vdc 20VA, 20VA or 40VA (see "AC/DC Input with Transformer Sharing" on page 2)	
Aux. Output	10.8 to 13.8Vdc, 700mA maximum with fuseless shutdown at 1.1A. With local control button.	
Battery	12Vdc, 4/7Ah gel cell (see "Battery Input" on page 2)	
Multibus	12Vdc, 4-Wire RS485 at up to 900m (3,000ft)	
Current consumption	150mA maximum	
Number of device inputs	32 standard device inputs	
Dimensions	Standard DIN12: 21cm X 10cm X 6cm (8.4" X 4" X 2.5")	
Operating Temperature	-10°C to 50°C (14°F to 122°F)	

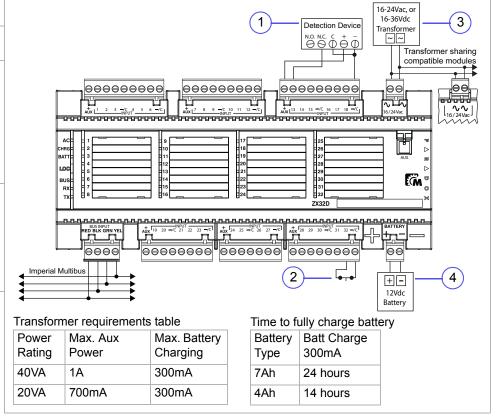
Wiring

- 1 INPUT DEVICES
 For input device wiring options, see ??
- 2 EXTERNAL MODULE TAMPER SWITCH Zone 32 (N.C.)
- 3 AC/DC INPUT WITH TRANSFORMER SHARING

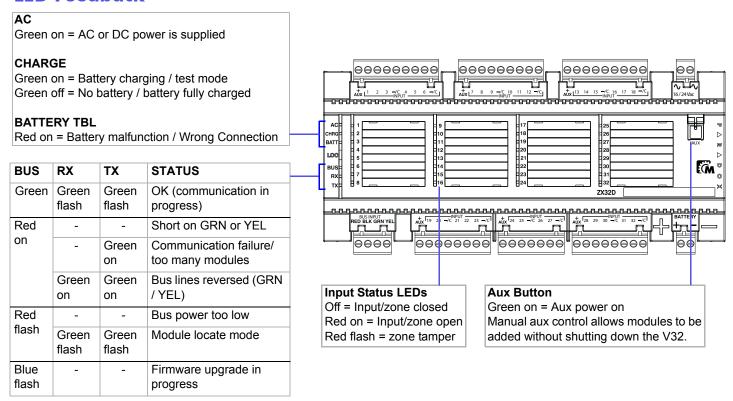
Modules with this feature can share a central transformer (16-24Vac, or 16-36Vdc) throughout the system. Ensure that the total power output of the transformer is respected. There is no specific polarity.

4 BATTERY INPUT

Connect a 12Vdc (4Ah or 7Ah) rechargeable gel cell battery. Apply AC power before connecting the battery. If battery wires are extended, use an external fuse to protect against a short.



LED Feedback



Test Mode

To facilitate installation and verify correct wiring, the ZX32D features five Test Modes. In order to use this feature, the ZX32D module must be powered (Test Mode 1 requires a full bus connection).

To enter Test Mode, press the LOC button. The ZX32D enters Test Mode 1. Press the LOC button again to enter Test Mode 2, and so on. On the sixth press, the ZX32D 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 ZX32D 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 ZX32D 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 ZX32D 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.

Bi-directional Locate Feature

Pressing and holding the LOC button for 3 seconds will initiate the Module Locate feature. When a Module Locate is initiated, the module's representation in the BabyWare software will flash and the module's BUS, RX and TX LEDs will flash at 1Hz to indicate that it is in locate mode. A module locate can also be initiated from the BabyWare software. From BabyWare right-click the module's representation and select Locate Physical. The module's BUS, RX and TX LEDs will flash. We highly recommend that after pressing locate and identifying the module, open the programming page and assign the proper physical location label and the doors' labels and locations. After complete connection, use the space provided on the module to indicate the doors' description.

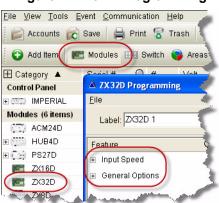
Remote Firmware Upgrade

The ZX32D is firmware upgradeable remotely via the V32 controller's Multibus at 57.6Kbps. Using BabyWare connect to the V32 account using any of the connection methods (direct connect, IP static, or IP DNS). Right-click the desired module and select Upgrade. When communicating through the Internet, BabyWare will indicate whether the panel or any of the bus modules have a newer firmware version available. A firmware upgrade for a single module or group of modules will take usually less than 10 minutes, which keeps system downtime to a minimum.

Programming a ZX32D Module

- 1) When BabyWare is communicating with the V32 controller and a ZX32D module is connected to the Multibus, it automatically appears in the Modules display area. To view the Modules display area, click the Modules toggle button. Alternatively, you may wish to add a module to BabyWare before the module is physically connected to the system. Click the Add Item button.
- 2) To program a module that already appeared in the system, double-click the module's icon. The ZX32D Programming window opens.
- 3) From the ZX32D Programming window, configure input speeds and general options. Click OK.

Figure 1: ZX32D Programming



Patents: One or more of the following US patents may apply: 7046142, 6215399, 6111256, 6104319, 5920259, 5886632, 5721542, 5287111, 5119069, 5077549 and RE39406 and other pending patents may apply. Canadian and international patents may also apply.

Trademarks: Paradox Imperial, MAMA, BabyWare, the M logo, and the triangle logo are trademarks or registered trademarks of Paradox Security Systems Ltd. or its affiliates in Canada, the United States and/or other countries.

Certification: For the latest information on products approvals, such as UL and CE, please visit www.paradox.com.

Warranty: For complete warranty information on this product please refer to the Limited Warranty Statement found on the website www.paradox.com/terms. Your use of the Paradox product signifies your acceptance of all warranty terms and conditions.

© 2009 Paradox Security Systems Ltd. All rights reserved. Specifications may change without prior notice.

