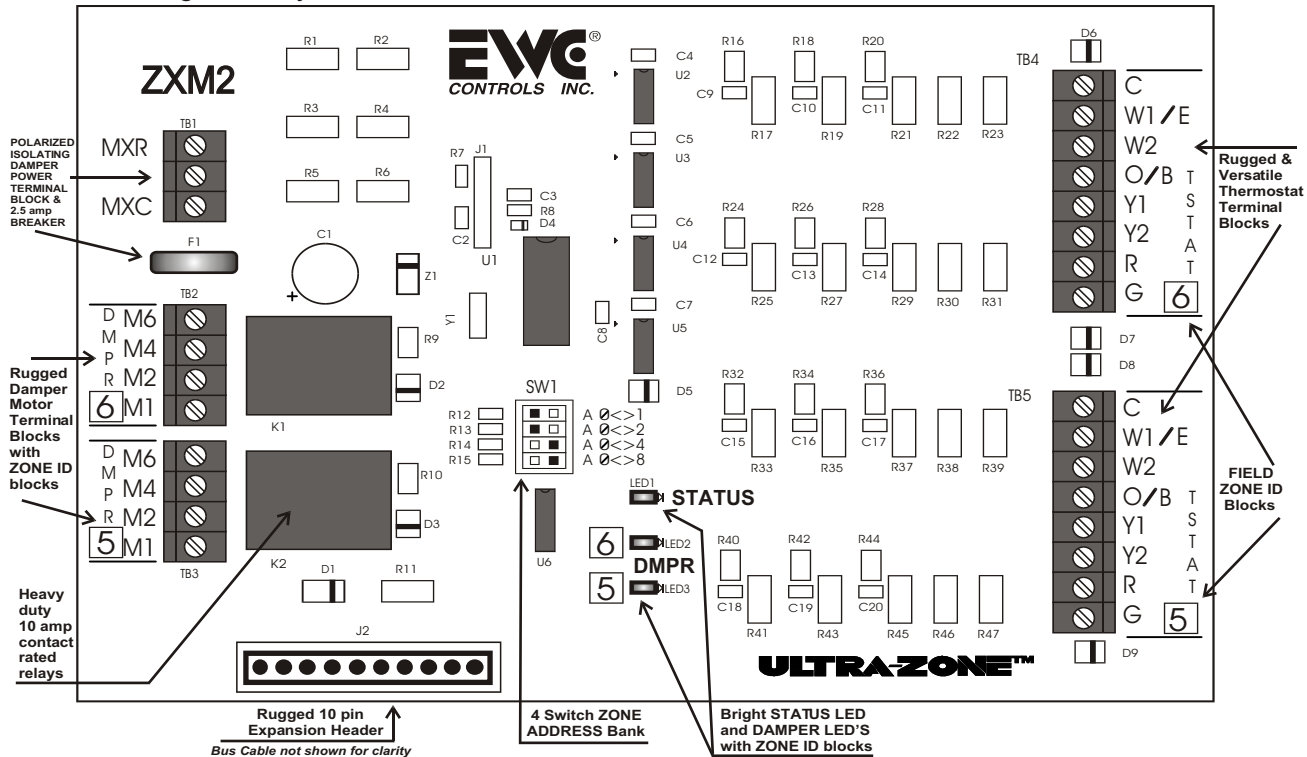


Leave this bulletin on the job site for future reference!

The advanced **ZXM2 Expansion Module** allows you to easily add additional zones to the UZC4 Zone Control System. You can gain up to 18 additional zones for a total of 22. The robust and superior design, intuitive firmware, simple setup options, and easy to understand wiring, makes the UZC4 Zoning system the Contractors dream. Combined with EWC motorized dampers and practically any off-the-shelf heat/cool, heatpump or Multistage thermostat, EWC Controls once again proves to be the innovative leader in the residential & light commercial Forced Air Zoning industry.



### Model ZXM2 Expansion Module

**Automatic Heat/Cool Changeover** The ZXM2 Expansion features automatic changeover from any thermostat allowing for individual zone comfort from the HVAC system.

**Compatible Thermostats** Compatible with most Off the shelf 1 or 2 stage Conventional Heat/Cool or Heat Pump Thermostats. All Mechanical, Digital/Electronic, Dual Mode, and Internet Compatible Thermostats that operate on 24vac. Battery powered or Power robbing thermostats that draw less than 20 ma of current are also accepted.

**Status LED** The STATUS LED pulses as a steady heart beat to indicate active Micro-processor status.

**Zone Capacity** The ZXM2 Expansion Module can add up to 16 zones with 1 to 8 expansion modules on a UZC4 control system.

**Damper LEDs** LEDs indicate which dampers are open.

**Operating Power**  
**INPUT VOLTAGE:**  
**PANEL:** 19-30VAC 60 Hz, Supplied via bus cable from UZC4.  
**DAMPERS:** 19-30VAC 60 Hz, Transformer 40-60VA Max. NEC Class 2.

**CURRENT DRAW:** Max 8VA @ 24VAC.

**OVER-CURRENT PROTECTION:**  
**PANEL:** 4.0 amp or 96VA. Protected via UZC4.

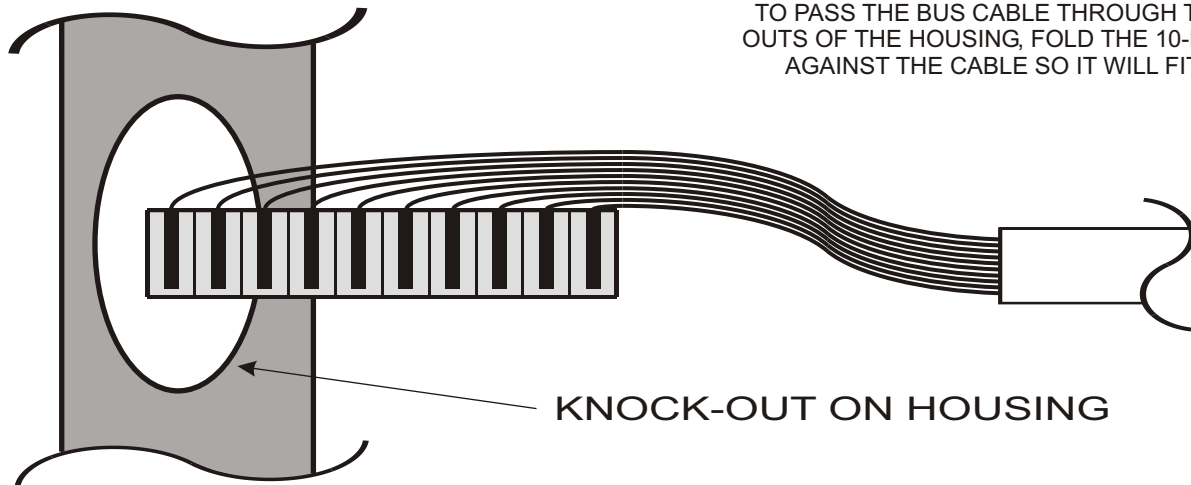
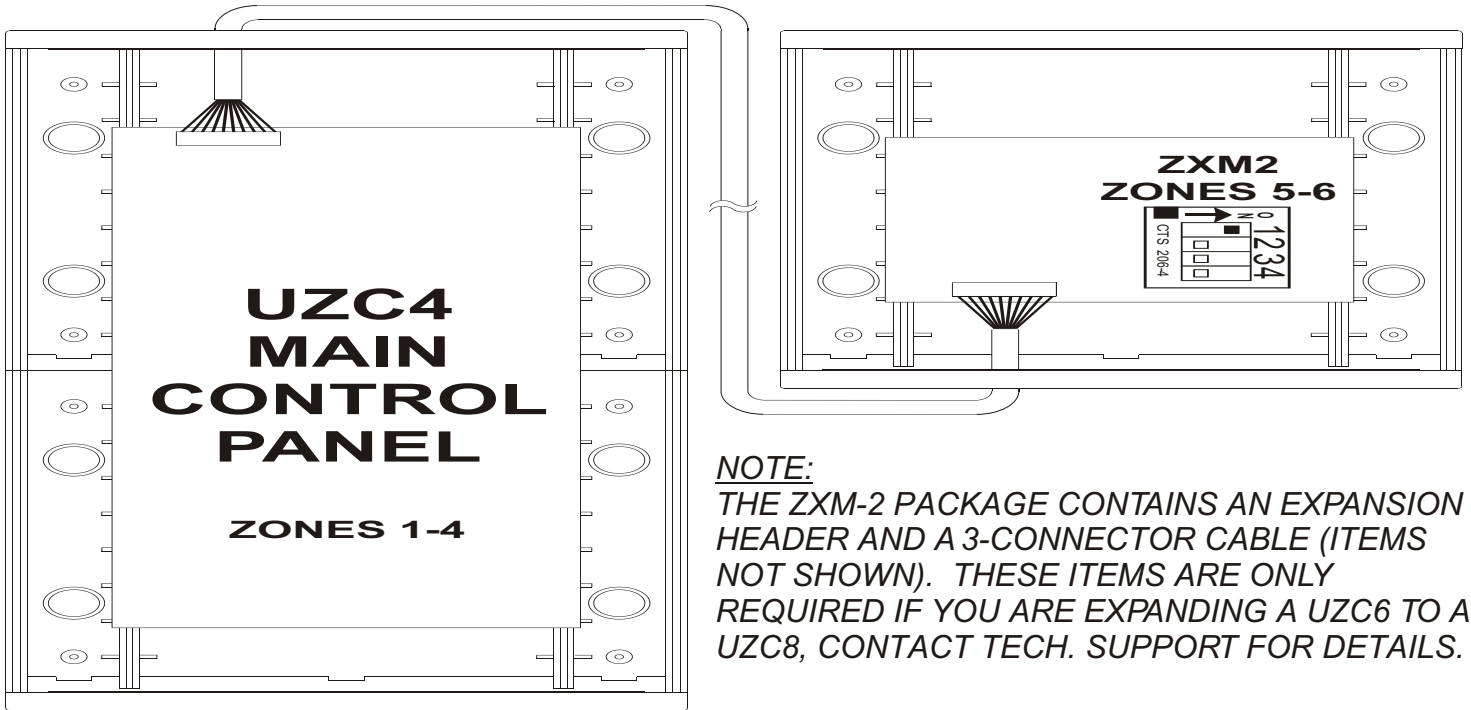
**DAMPERS:** 2.5 AMP or 60VA  
**TEMPERATURE:** -20° to 160°F (-29° to 71°C)  
**HUMIDITY:** 0% - 95% RH Non-Condensing.

**Operating Conditions**

# FIELD BUS CABLE ROUTING

**DO NOT CONNECT OR DISCONNECT BUS CABLES WHILE POWER IS APPLIED TO THE SYSTEM. DOING SO MAY DAMAGE THE ZXM2 MODULES AND VOIDS ALL WARRANTIES.**

## UZC6



FIELD BUS CABLES ARE ROUGHLY 40" IN  
LENGTH, SECURE CABLE AS NECESSARY.

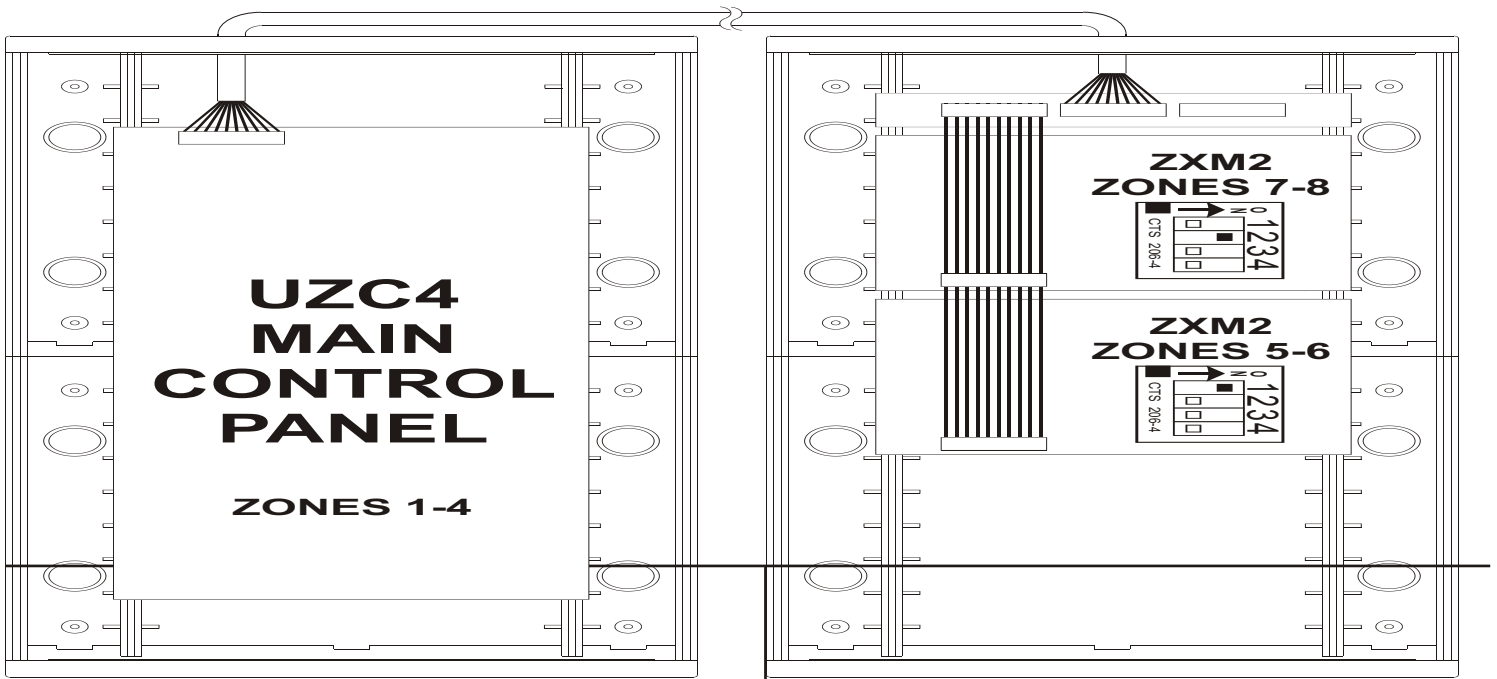
All Expansion module Dip switch banks must be set correctly for proper zone address identification. The 1st expansion module would be zones 5 & 6. The 2nd expansion module would be zones 7 & 8. The 3rd expansion module would be zones 9 & 10. And so on up the line for a total of 22 zones.

The switches are set for you at the factory unless you are expanding the system in the field. It is a good idea to check them anyway.

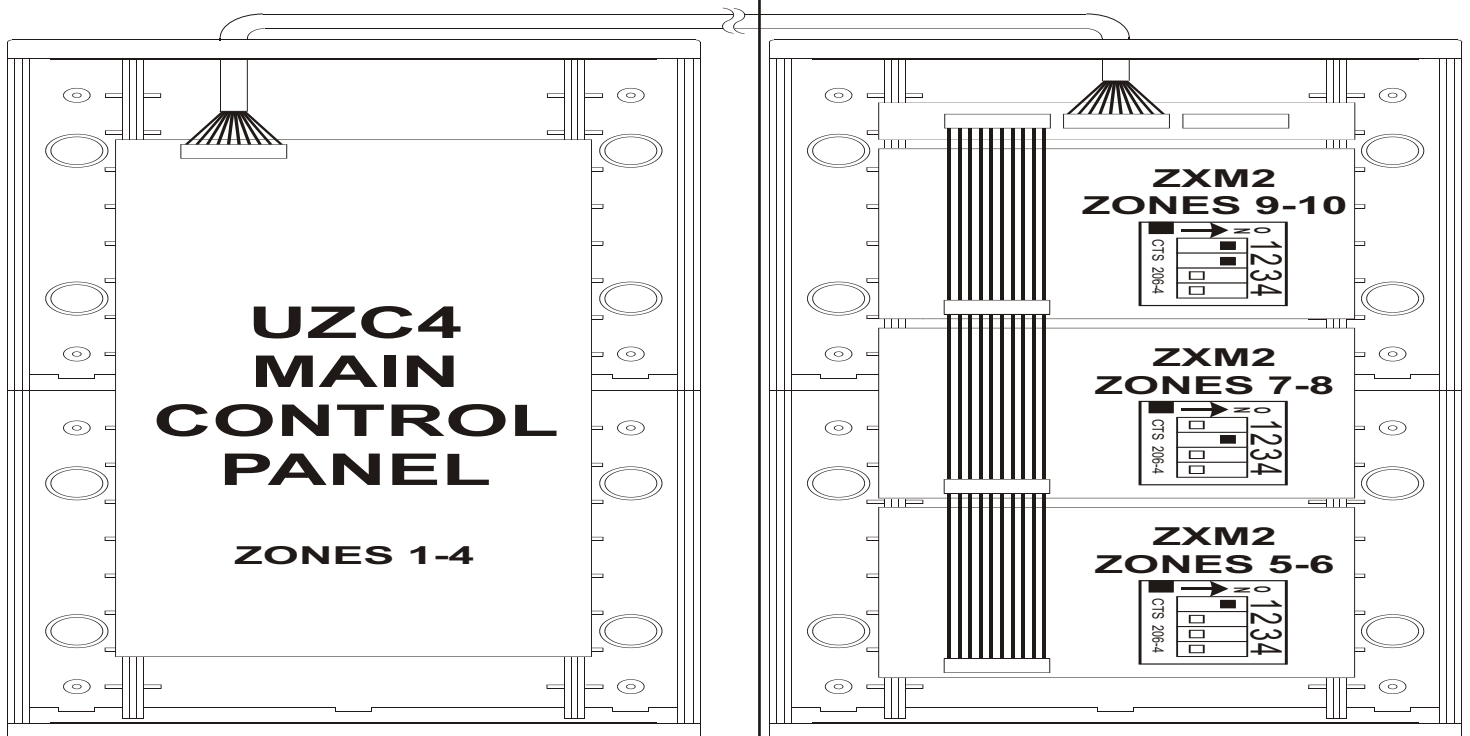
# FIELD BUS CABLE ROUTING

DO NOT CONNECT OR DISCONNECT BUS CABLES WHILE POWER IS APPLIED TO THE SYSTEM. DOING SO MAY DAMAGE THE ZXM2 MODULES AND VOIDS ALL WARRANTIES.

## UZC8



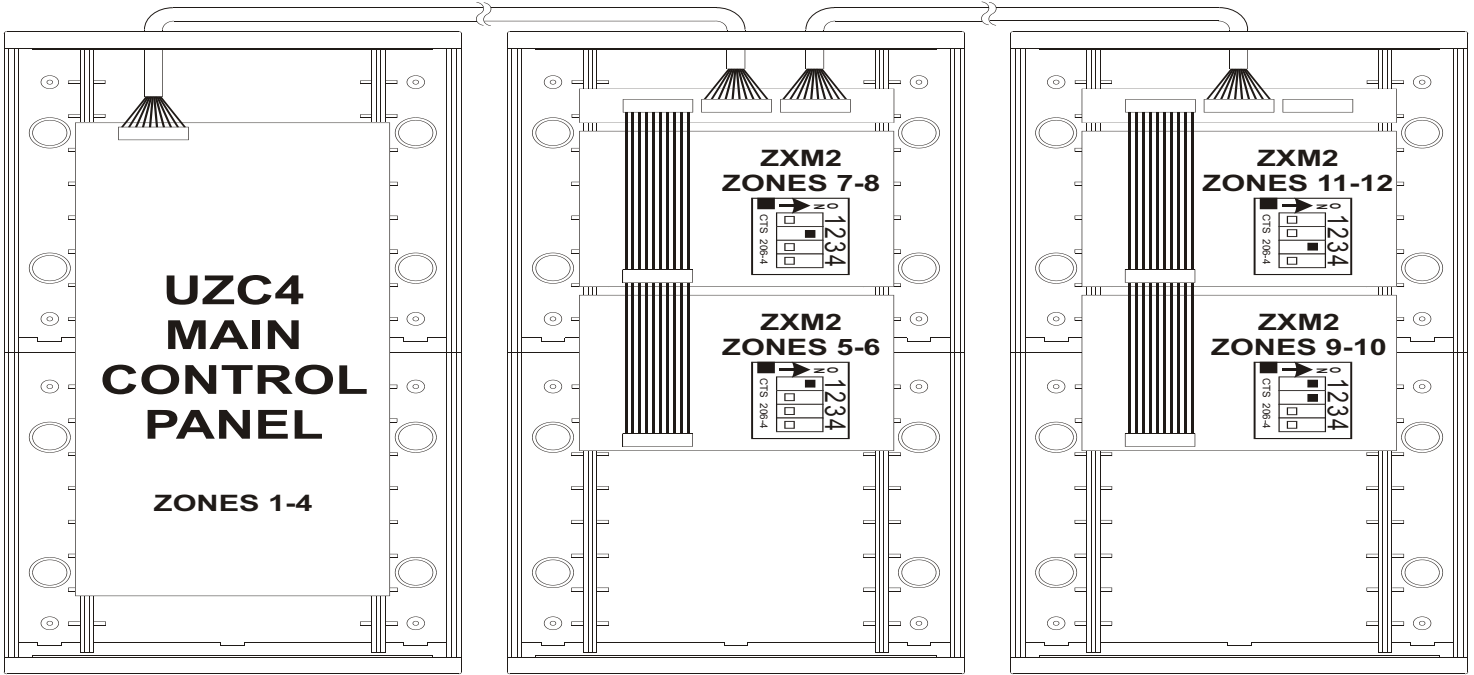
## UZC10



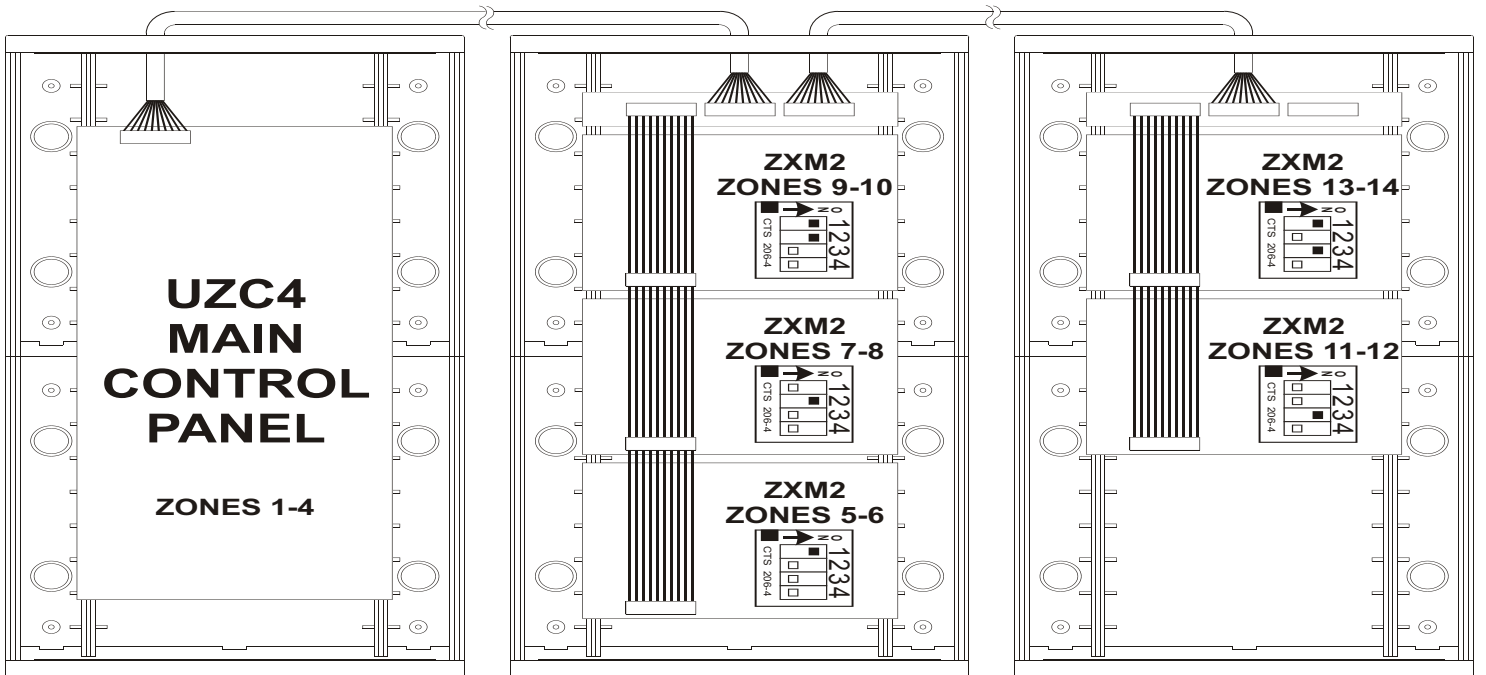
# FIELD BUS CABLE ROUTING

DO NOT CONNECT OR DISCONNECT BUS CABLES WHILE POWER IS APPLIED TO THE SYSTEM. DOING SO MAY DAMAGE THE ZXM2 MODULES AND VOIDS ALL WARRANTIES.

## UZC12



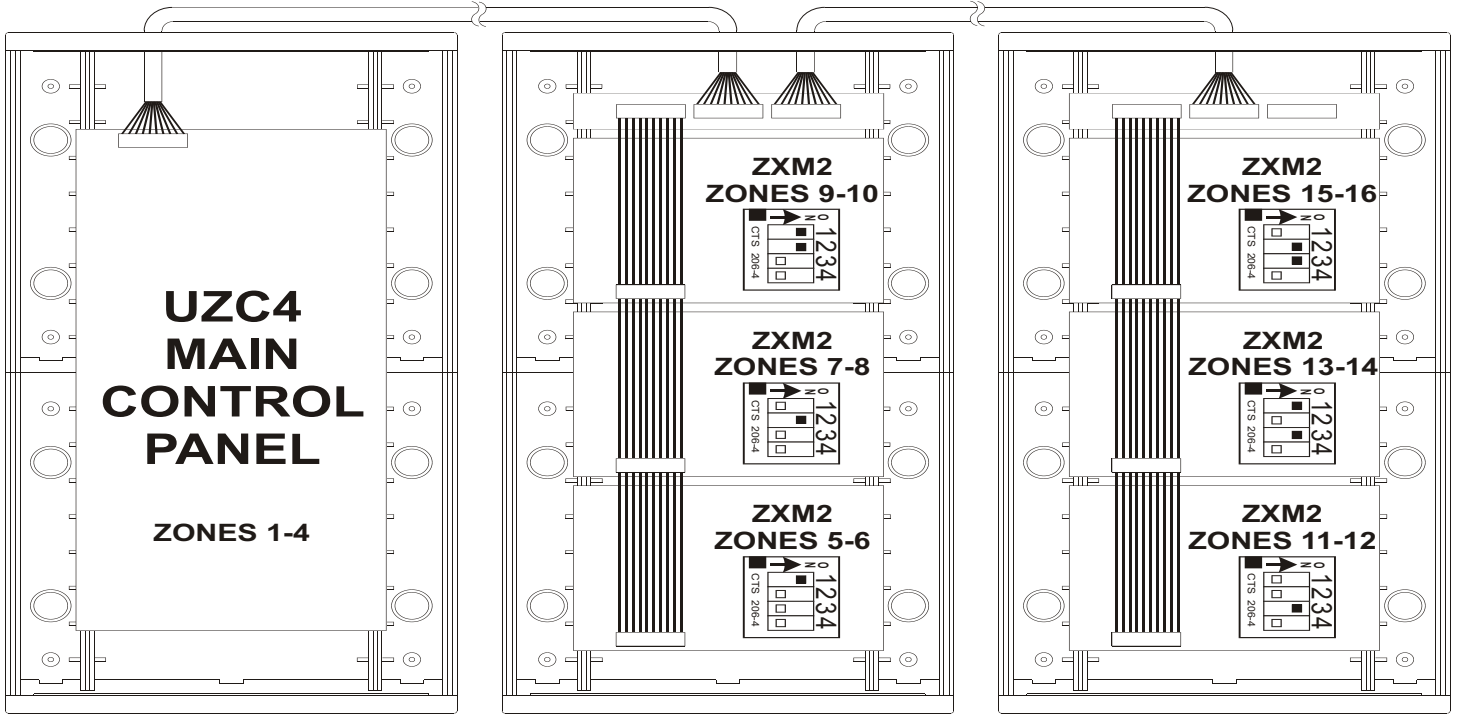
## UZC14



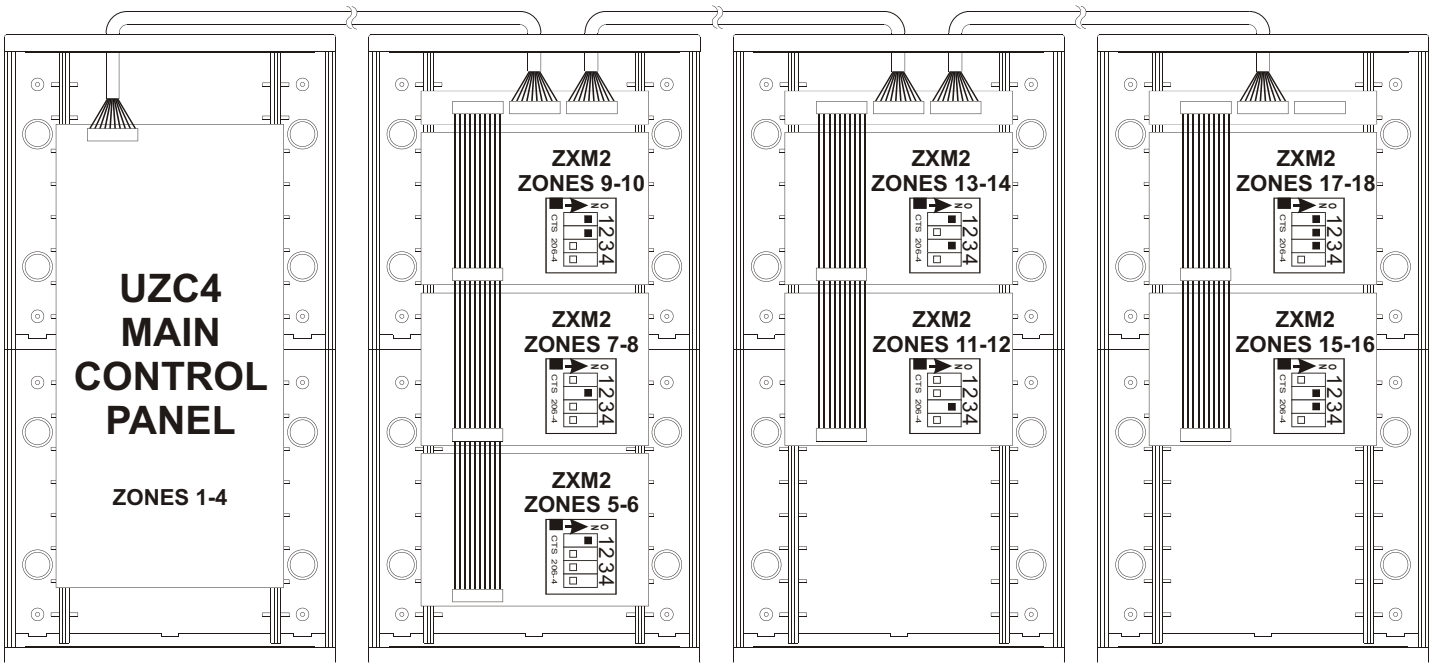
# FIELD BUS CABLE ROUTING

DO NOT CONNECT OR DISCONNECT BUS CABLES WHILE POWER IS APPLIED TO THE SYSTEM. DOING SO MAY DAMAGE THE ZXM2 MODULES AND VOIDS ALL WARRANTIES.

## UZC16



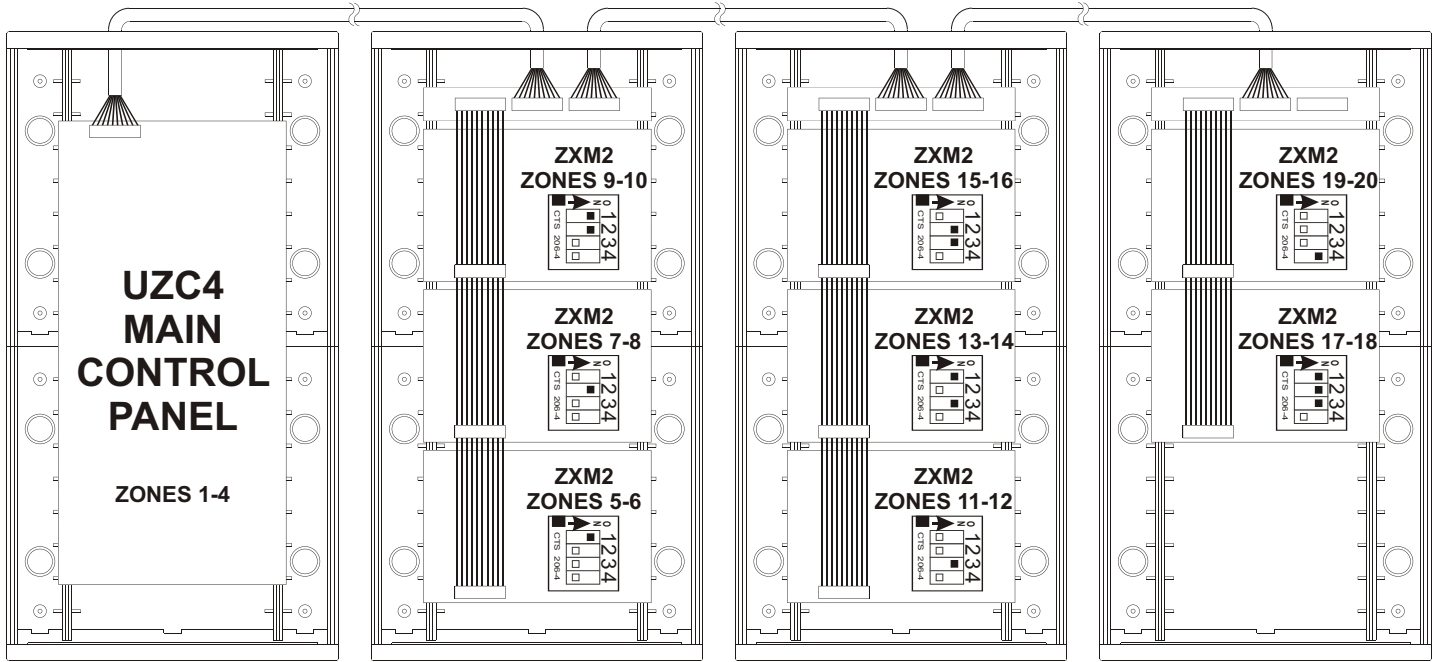
## UZC18



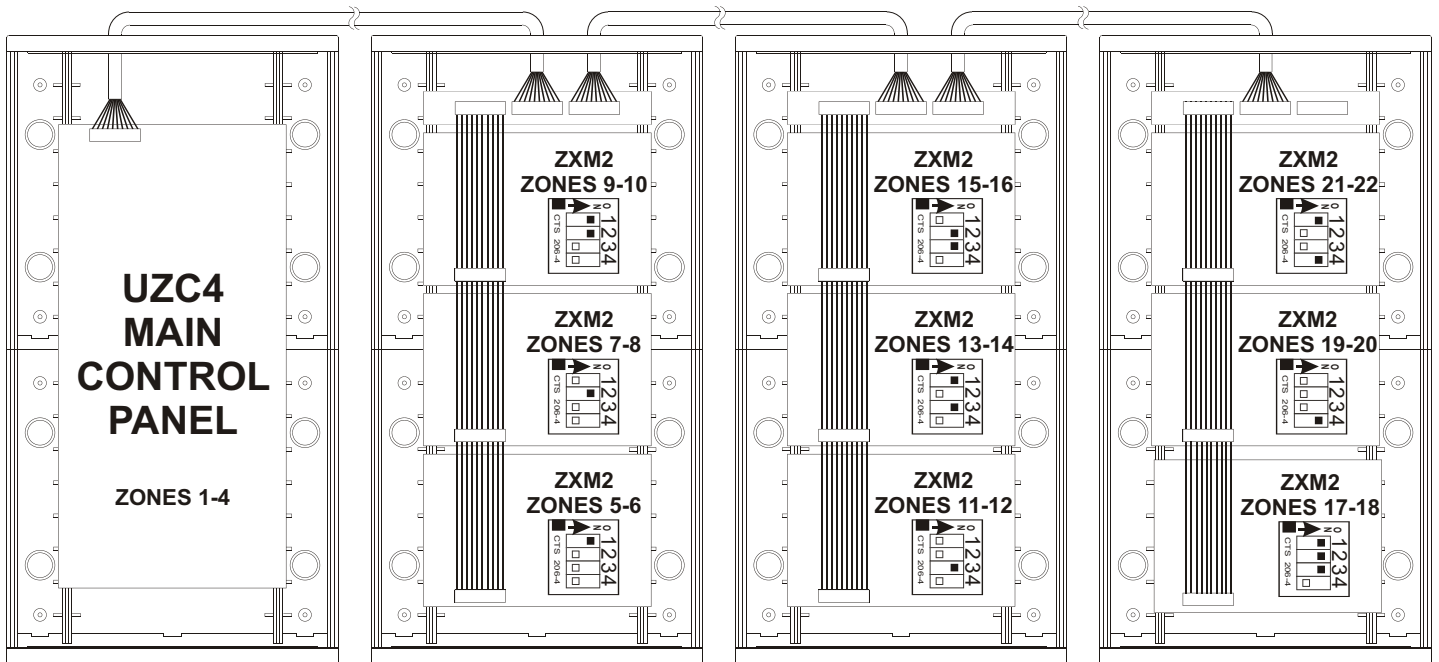
# FIELD BUS CABLE ROUTING

DO NOT CONNECT OR DISCONNECT BUS CABLES WHILE POWER IS APPLIED TO THE SYSTEM. DOING SO MAY DAMAGE THE ZXM2 MODULES AND VOIDS ALL WARRANTIES.

## UZC20

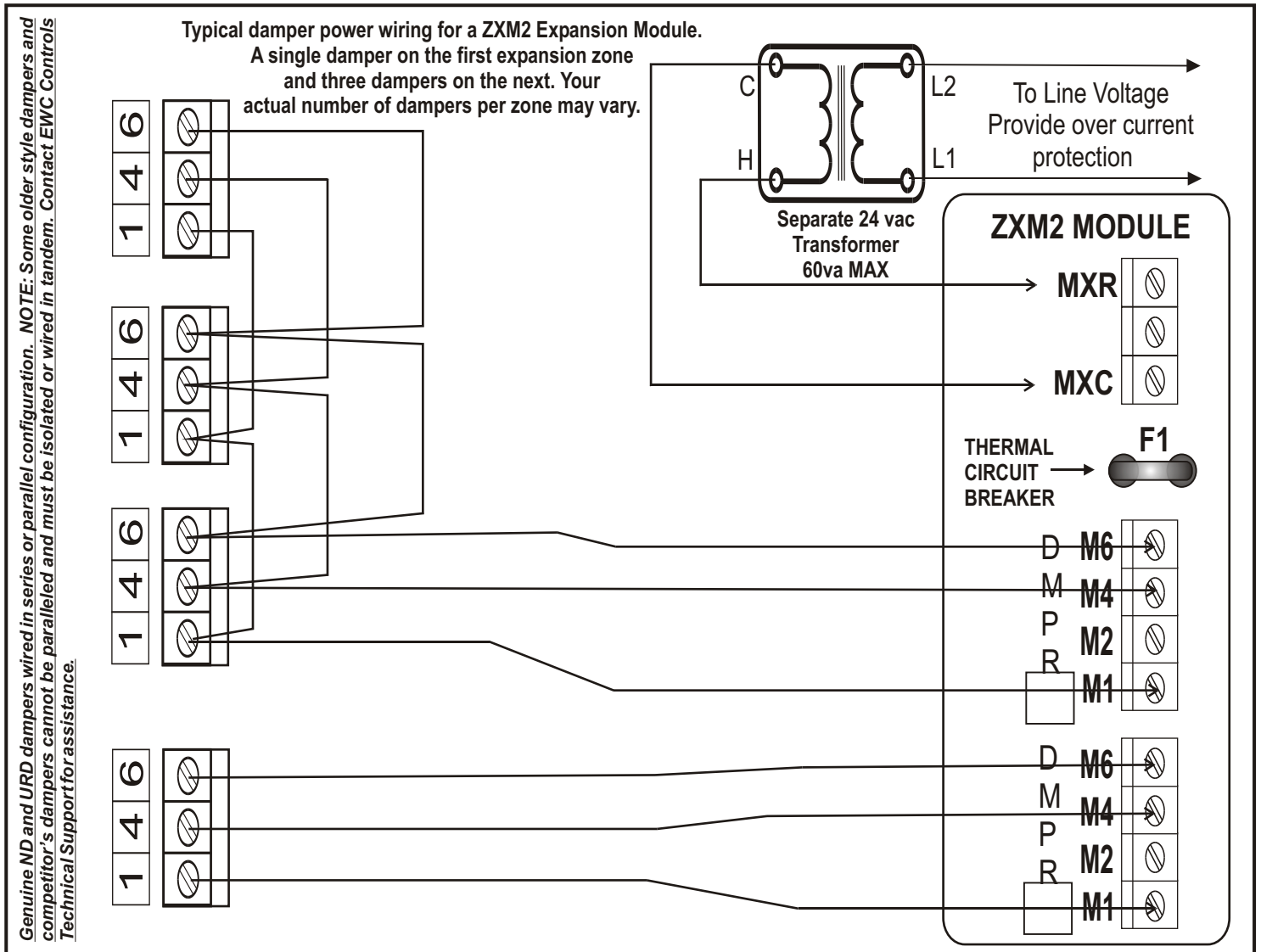


## UZC22



# DAMPER WIRING, DAMPER TESTING AND POWER SUPPLY SOLUTIONS

The Expansion module motor blocks must be powered by a separate transformer. This advanced design provides automatic 2.5amp over-current protection for each Expansion module motor block and allows a maximum 60va transformer to be connected. This means that you can directly connect a theoretical maximum of 12 Genuine ND/URD dampers to a single 2 zone expansion module. Now you no longer have to isolate & power up multiple dampers using field installed relays. The Expansion modules provide the isolation for you. See the diagram below for typical wiring solutions for dampers.



## TESTING DAMPER MOTORS

**ND / URD / SMD / BMD Dampers** - Connect 24vac common to terminal 1 and 24vac hot to terminal 4. Damper should Open. Remove 24vac hot from terminal 4 and apply to terminal 6. Damper should Close

**SR /SRE Power Close / Spring Open Dampers** - Connect 24vac common & hot to the two motor (M) terminals. Damper should Close. Remove 24 vac hot. Damper should Open.

**SR /SRE Power Open / Spring Close Dampers** - Connect 24vac common & hot to the two motor (M) terminals. Damper should Open. Remove 24vac hot. Damper should Close.

# JOB NOTES: