DM-204 ZONE ADDER MODULE



Class A / B Selection: JW2 & JW3 are connected from 1 to 2 for Initiating Circuit Class B (Style B) operation, and from 2 to 3 for Class A (Style D) operation.

P1 & P2: Connections to P7 & P6 respectively on the Main Fire Alarm Board (refer to proper Fire Alarm board layout).

SW5,6: Config DIP Switches.



Note: The Class A/B selection affects all Initiating Circuits, and must be used with the correct Configuration DIP Switch Setting.

On the DM-204 Zone Adder Module DIP Switches are located on the bottom right-hand corner.

Function	DIP Switch on DM-204 Module	Switch "Off"	Switch "On"		
Indicating Circuit #3 Audible Device (Bell) Only	Switch 6, #1	Silenceable	Non-Silenceable		
Indicating Circuit #4 Audible or Visual Device	Switch 6, #2	Silenceable	Non-Silenceable		
	Switch 6, #3	Audible Device (Bell)	Visual Device (Strobe)		
Not Used	Switch 6, #4				
Initiating Circuit #5 Alarm Only	Switch 5, #1	Normal Alarm	Verified Alarm		
Initiating Circuit #6 Alarm Only	Switch 5, #2	Normal Alarm	Verified Alarm		
Initiating Circuit #7 Alarm or Waterflow	Switch 5, #3 Switch 5, #4	Normal Alarm	Verified Alarm/Retarded Waterflow Waterflow		
Initiating Circuit #8 Alarm or Supervisory	Switch 5, #5 Switch 5, #6 Switch 5, #7	Normal Alarm Non-Latching Supervisory	Verified Alarm (No effect on Supv.) Supervisory Latching Supervisory (No effect on Alarm)		
Not Used	Switch 5, #8				

Notes:

- After any Configuration Switches are changed, it is necessary to perform a System Reset.
- Only Indicating Circuit 4 may be configured for Visual Devices.
- If Initiating Circuit 7 is configured as Waterflow, the corresponding Verified selection becomes a Retard selection.
- Do not use Retard Operation with any external Retarding device; maximum Retard may not exceed 120 seconds.
- If Initiating Circuit 8 is configured as Alarm, the corresponding Latching selection has no effect.
- If Initiating Circuit 8 is configured as Supervisory, the corresponding Verified selection has no effect.
- The selection of Class A/B (Style Z/Y) Indicating Circuits is only a matter of how they are wired. See Connection Info.
- If Class A (Style D) Initiating Circuits are selected the appropriate Board Jumpers must also be set. Class B Initiating Circuits 5&6 combine to create Class A Circuit #3, and Class B Initiating Circuits 7&8 combine to create Class A Circuit #4. DIP Switches for Circuits 5 to 8 are ignored, and LED Indicators for Circuits 5 to 8 are non-functional.

DM-204 Zone Adder Module Terminal Connections

Wire devices to terminals as shown. See LT-636 for wiring tables and Appendix "A" for compatible devices.

Electrical Ratings

Power limited:

Current consumption:

24 VDC unfiltered, 1.7A per Circuit

Standby: 45 mA Alarm: 120 mA

IND4-(Y/Z)	CLASS A / STYLE D NOTE: INITIATING CIRCUITS MUST BE ALL EITHER STYLE B OR D. IF STYLE D IS SELECTED, THE NUMBER OF CIRCUITS IS CUT IN HALF.
IND4- (Z)	Regulated 24 FWR SUPERVISED INDICATING CIRCUIT #4
IND4+ (Z)	
IND4+ (Y/Z)	EXAMPLES OF BOTH CLASS "A" AND "B" WIRING ARE SHOWN, BUT ONLY ONE CLASS OF WIRING MAY BE USED IN ANY INSTALLATION.
IND3- (Y/Z)	
IND3- (Z)	SUPERVISED INDICATING CIRCUIT #3
IND3+ (Z)	Wiking Wiking
STYLE D	SUPERVISED INITIATING CIRCUIT #8 (SHOWN AS SUPV ZONE, POWER LIMITED)
INI4 INI7-	SUPERVISED INITIATING CIRCUIT #7 (SHOWN AS ALARM ZONE, POWER LIMITED)
	Examples of both class "A" and "B" WIRING ARE SHOWN, BUT ONLY ONE class of WIRING MAY BE USED IN ANY INSTALLATION.
STYLE D INI3 INI5-	SUPERVISED INITIATING CIRCUIT #3 (POWER LIMITED) CLASS A / STYLE D WIRING
INI5+	
LEGEND: SEE APPENDIX "A	* FOR COMPATIBLE DEVICES. NOTES: ALL TERMINALS ARE SHOWN FROM THE BACK OF THE MAIN FIRE ALARM BOARD ASSEMBLY (POINTING TOWARDS THE REAR OF THE ENCLOSURE).
	WATERFLOW ALL POWER LIMITED CIRCUITS MUST USE TYPE FPL, FPLR, OR FPLP POWER LIMITED CABLE.
	BELL, HORN, OR STROBE INITIATING CIRCUITS ARE FULLY SUPERVISED AND RATED FOR 26 VDC, 3 mA STANDBY, 1.5 Vp-p RIPPLE, 50 mA MAX. ALARM. THEY MAY BE CONFIGURED AS REQUIRED. THE
	ALARM THRESHOLD IS 21 mA. MAXIMUM LOOP 3.9K 1/2W ELR LISTED S5434 MODEL MP-300 MANUFACTURED BY MIRCOM ALL INITIATING CIRCUITS ARE COMPATIBILITY ID "A"

Wiring Table for NAC Circuits

Total Signal Load		Max Loop Resistance							
Amperes	ft.	m	ft.	m	ft.	m	ft.	m	Ohms
0.06	2350	716	3750	1143	6000	1829	8500	2591	30
0.12	1180	360	1850	567	3000	915	4250	1296	15
0.30	470	143	150	229	1200	366	1900	579	6
0.60	235	71	375	114	600	183	850	259	3
0.90	156	47	250	76	400	122	570	174	2
1.20	118	36	185	56	300	91	425	129	1.5
1.50	94	29	150	46	240	73	343	105	1.2
1.7	78	24	125	38	200	61	285	87	1.0

Main board and DM-204 NAC circuits are rated for 1.7 amps each.

Note: Maximum voltage drop should not exceed 1.8 volts.



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