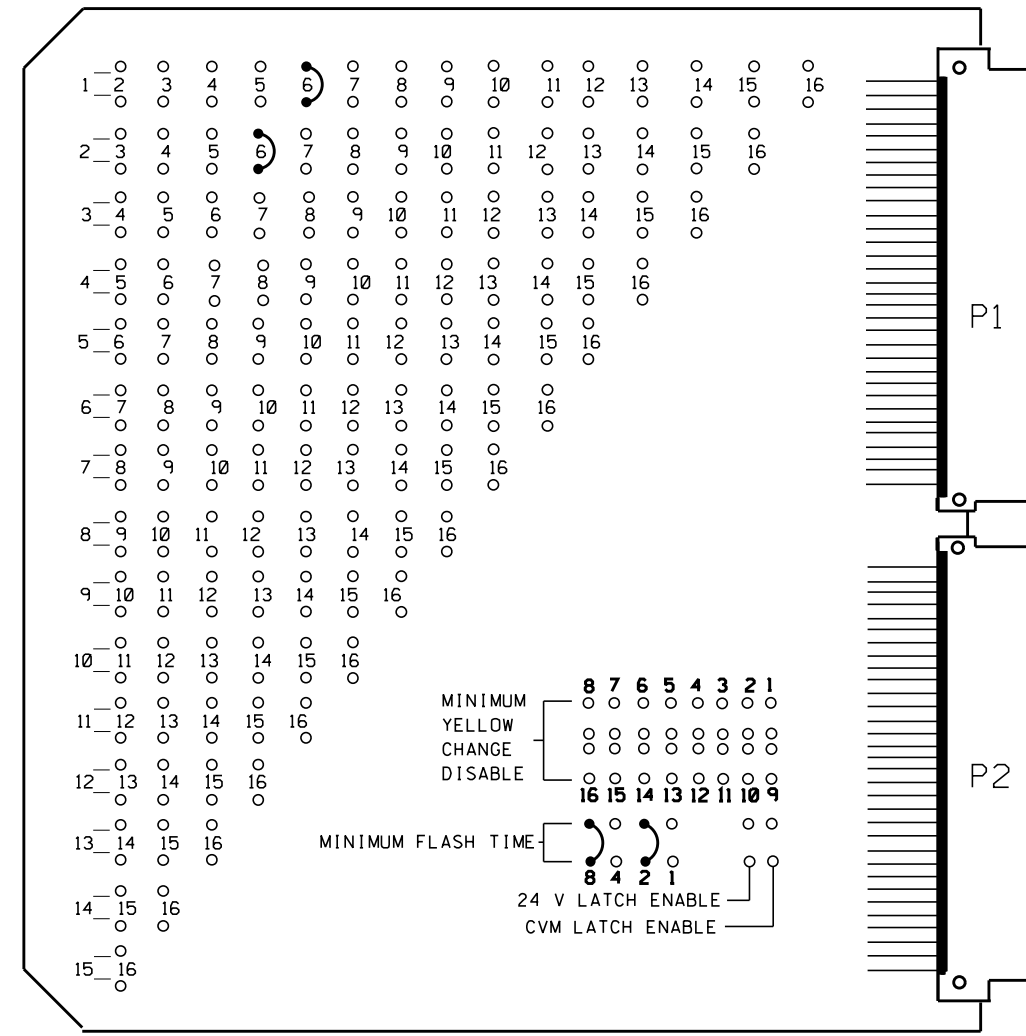


**EDI MODEL MMU2-16LE
MALFUNCTION MANAGEMENT UNIT
PROGRAMMING DETAIL**

(program card and tables as shown below)



MMU PROGRAMMING CARD

**FIELD CHECK ENABLE
DUAL IND ENABLE
RED FAIL ENABLE**

CHANNEL NUMBER	ENABLE/DISABLE
1	ENABLE
2	ENABLE
3	DISABLE
4	ENABLE
5	DISABLE
6	ENABLE
7	DISABLE
8	DISABLE
9	DISABLE
10	DISABLE
11	DISABLE
12	DISABLE
13	DISABLE
14	DISABLE
15	DISABLE
16	DISABLE

MMU PROGRAMMING NOTE
ENSURE YELLOW CHANGE PLUS RED CLEARANCE MONITORING IS ENABLED FOR ALL CHANNELS.

UNIT OPTIONS

OPTION	SETTING
RECURRENT PULSE	ON
WALK DISABLE	OFF
LOG CVM FAULTS	ON
EXTERN WATCHDOG	OFF
24V-2-12VDC	OFF
PGM CARD MEMORY	ON
LEDsgaurd	ON
FORCE TYPE 16	OFF
TYPE12-SDLCL	OFF
VM 3x/Day Latch	ON

FLASHING YELLOW ARROW

CONFIG MODE	SETTING
CONFIG MODE	A
ENABLE CHANNEL PAIR, FYA	
CH 1-9	OFF
CH 3-10	OFF
CH 5-11	OFF
CH 7-12	OFF
RED/YEL INPUT ENABLE	
CH 1-9	OFF
CH 3-10	OFF
CH 5-11	OFF
CH 7-12	OFF
FLASH RATE FAULT	OFF
FYA TRAP DETECT	OFF

NOTES

- TO PREVENT "FLASH-CONFLICT" PROBLEMS, WIRE ALL UNUSED LOAD SWITCHES TO FLASH RED. VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
- TO PREVENT RED FAILURES ON UNUSED MONITOR CHANNELS, TIE UNUSED LOAD SWITCH RED OUTPUTS 3,5,7,8,9,10,11,12,13,14,15 & 16 TO LOAD SWITCH AC+ BY INSERTING A JUMPER PLUG IN THE UNUSED LOAD SWITCH SOCKET FROM PIN 1 (LS AC+) TO PIN 3 (RED OUT). MAKE SURE ALL FLASH TRANSFER RELAYS ARE IN PLACE.
- PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
- SET POWER-UP FLASH TIME TO 10 SECONDS AND IMPLEMENT ON THE MALFUNCTION MANAGEMENT UNIT. SET CONTROLLER POWER-UP FLASH TIME TO 0 SECONDS.
- ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- PROGRAM DETECTORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO ACCOMPLISH THE DETECTION SCHEMES SHOWN ON THE SIGNAL DESIGN PLANS.
- PROGRAM DETECTOR CALL DELAY AND EXTENSION TIMING ON THE CONTROLLER, UNLESS OTHERWISE SPECIFIED.
- SET ALL DETECTOR CARD UNIT CHANNELS TO "PRESENCE" MODE.
- THIS CONTROLLER AND CABINET ARE PART OF THE GREENVILLE SIGNAL SYSTEM.

SIGNAL HEAD HOOK-UP CHART

PHASE	1	2	3	4	5	6	7	8	2 PED	4 PED	6 PED	8 PED	OLA	OLB	OLC	OLD
SIGNAL HEAD NO.	11	21	22	23	NU	41,42	NU	61,62 63	NU	NU	NU	NU	NU	NU	NU	NU
RED		2R	2R		4R		6R									
YELLOW		2Y	2Y		4Y											
GREEN		2G	2G		4G											
RED ARROW	1R	2R														
YELLOW ARROW	1Y	2Y				6Y										
FLASHING YELLOW ARROW																
GREEN ARROW	1G	2G	2G			6G										

NU = Not Used

DETECTOR RACK SET-UP DETAIL

INSERT DETECTOR CARDS IN RACK ACCORDING TO THE DETAIL SHOWN BELOW. PARTICULAR DETECTOR CHANNELS WILL CALL PHASES INDICATED.

DETECTOR RACK #1

BIU	SLOT	CHI	SLOT	CHI	SLOT	CHI	SLOT	CHI	SLOT	SLOT	SLOT
		L1		L5		L9		L13			
		Ø1		Ø2		Ø4		Ø6			
	EMPTY	CH2 L2 NOT USED		CH2 L6 NOT USED		CH2 L10 NOT USED		CH2 L14 NOT USED			

DETECTOR RACK #2

BIU	SLOT	SLOT	SLOT	SLOT
	EMPTY	EMPTY	EMPTY	EMPTY

WIRE LOOPS TO TERMINALS ON LOOP PANEL AS SHOWN IN THE CHART BELOW

LOOP NO.	LOOP PANEL TERMINALS
1A	L1A,L1B
NU	L2A,L2B
NU	L3A,L3B
NU	L4A,L4B
2A, 2B	L5A,L5B
NU	L6A,L6B
NU	L7A,L7B
NU	L8A,L8B
4A	L9A,L9B
NU	L10A,L10B
NU	L11A,L11B
NU	L12A,L12B
6A, 6B	L13A,L13B
NU	L14A,L14B
NU	L15A,L15B
NU	L16A,L16B
NU	L17A,L17B
NU	L18A,L18B
NU	L19A,L19B
NU	L20A,L20B
NU	L21A,L21B
NU	L22A,L22B
NU	L23A,L23B
NU	L24A,L24B

NU = NOT USED

NOTE
BE SURE TO PROGRAM DETECTOR TYPES AND TIMERS (EXTEND AND DELAY) AS SHOWN ON THE SIGNAL PLANS.

PROGRAM CONTROLLER DETECTORS ACCORDING TO THE SCHEDULE SHOWN IN THE CHART BELOW

CONTROLLER DETECTOR NO.	FUNCTION	TIMING	
		FEATURE	TIME(SEC)
1	Ø1	DELAY	3
2	-	-	-
3	-	-	-
4	-	-	-
5	Ø2	-	-
6	-	-	-
7	-	-	-
8	-	-	-
9	Ø4	DELAY	3
10	-	-	-
11	-	-	-
12	-	-	-
13	Ø6	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-

EQUIPMENT INFORMATION

CONTROLLER.....ASC/3
 CABINET[TS-2] NC-8A
 SOFTWAREECONOLITE ASC/ 2070
 CABINET MOUNT.....BASE
 LOADBAY POSITIONS.....16
 LOAD SWITCHES USED.....1,2,4,6
 PHASES USED.....1,2,4,6
 OLA.....NONE
 OLB.....NONE
 OLC.....NONE
 OLD.....NONE

LOAD SWITCH ASSIGNMENT DETAIL

(program controller according to schedule in chart below)

LOAD SWITCH NUMBER	FUNCTION
1	Ø1
2	Ø2
3	Ø3
4	Ø4
5	Ø5
6	Ø6
7	Ø7
8	Ø8
9	Ø2 PED
10	Ø4 PED
11	Ø6 PED
12	Ø8 PED
13	OLA
14	OLB
15	OLC
16	OLD

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 02-0893T2
 DESIGNED: JUNE 2014
 SEALED: 9/2/2014
 REVISED: N/A

TEMPORARY DESIGN 2 - TMP PHASE 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared For:

 750 N. Greenfield Pkwy, Garner, NC 27529

10th STREET
 AT
 SR 1703 (14TH STREET)

DIVISION 5 PITT COUNTY GREENVILLE

PLAN DATE: JUNE 2014 REVIEWED BY: SL PHILLIPS

PREPARED BY: SP PENNINGTON REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL

DocuSigned by:
 Stacie Phillips
 9/2/2014

SIGNATURE DATE

SIG. INVENTORY NO. 02-0893T2

PLANS PREPARED IN THE OFFICE OF:
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