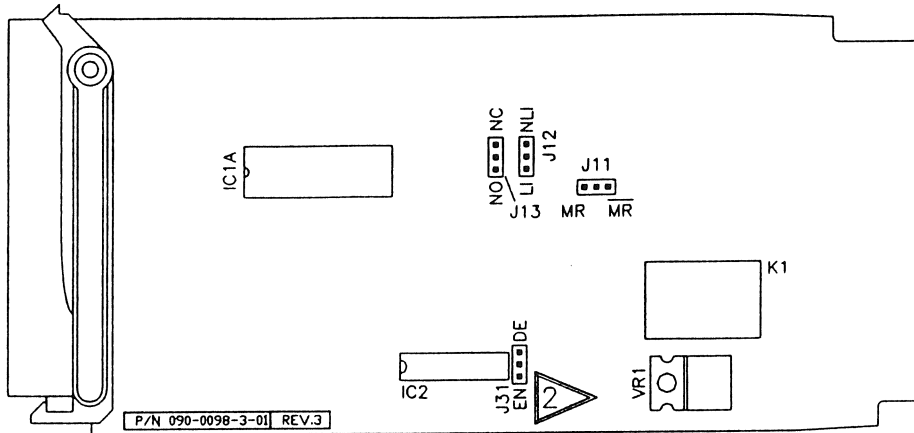


**1 DO NOT RECONFIGURE PROGRAMMING JUMPERS**  
(OTHER THAN THOSE INDICATED IN THE DIAGRAM BELOW)



**NOTES:**

- 1** THIS SEQUENCE CARD HAS BEEN FACTORY SET TO OPERATE IN ACCORDANCE WITH THE MODEL NUMBER INDICATED ON THE CLEAR PLASTIC HANDLE. CHANGING THE PROGRAMMING JUMPER CONFIGURATION FROM THEIR FACTORY SETTINGS WILL ADVERSELY AFFECT THE OPERATION OF THE CARD. ONLY THOSE JUMPERS INDICATED IN THE DIAGRAM ABOVE ARE DESIGNED FOR FIELD SELECTION OF CUSTOMER OPTIONS PER TABLE "A" BELOW.

TABLE A				
SEQUENCE OR OPTION	SEQUENCES AF1, AF5, or AF12 (ONLY!) USE JUMPER:	RELAY OUTPUT OPTIONS (4 OR 6) AE, BE or CE USE JUMPER:	ALL SEQUENCES USE JUMPER:	SEQUENCES AF13 (ONLY!) USE JUMPERS:
SET JUMPER	J12 TO SET LOCKIN (LI) OR NON-LOCKIN (NLI)	J31 TO SET K1 FOR ENERGIZED IN NORMAL (EN) OR DE-ENERGIZED IN NORMAL (DE)	J13 TO SET FIELD CONTACT FOR: NORMALLY OPEN (NO) OR NORMALLY CLOSED (NC)	J11 AND J12 TO SET SEQUENCE FOR AF OR AM (AF1 OR AF3)
EXAMPLE OF JUMPER SETTING				

- 2** FOR CARDS WITHOUT A RELAY OUTPUT OPTION INSTALLED, JUMPER J31 WILL NOT BE PRESENT.
- 3** \*AE OPTION CARDS WILL HAVE ONLY A NORMALLY OPEN, (N.O.), CONTACT AVAILABLE.  
\*BE OPTION CARDS WILL HAVE ONLY A NORMALLY CLOSED, (N.C.), CONTACT AVAILABLE.  
\*CE OPTION CARDS WILL HAVE BOTH A NORMALLY OPEN AND A NORMALLY CLOSED CONTACT AVAILABLE.
- 4** CONTACTS SHOW RELAYS IN THE DE-ENERGIZED IN NORMAL CONDITION, (FACTORY DEFAULT IS ENERGIZED).
- 5** IF TRANSIENT SUPPRESSION FOR RELAY CONTACTS IS REQUIRED INSTALL PANALARM MODEL 90ATB14 ACROSS THE POINT TERMINAL BLOCK TERMINALS HAVING ACTIVE CONTACTS (130VAC MAX.)
- 6** CONTACT RATINGS:  
5 AMP @ 250VAC OR 28VDC RESISTIVE.  
500 mA @ 120VAC OR 28VDC LAMP LOAD.  
500 mA @ 125VDC RESISTIVE LOAD ONLY.  
125 mA @ 125VDC LAMP LOAD ONLY.

SEE SEQUENCE CARD MODEL NUMBER (LOCATED ON CARD HANDLE) FOR OPTION CODE ORDERED

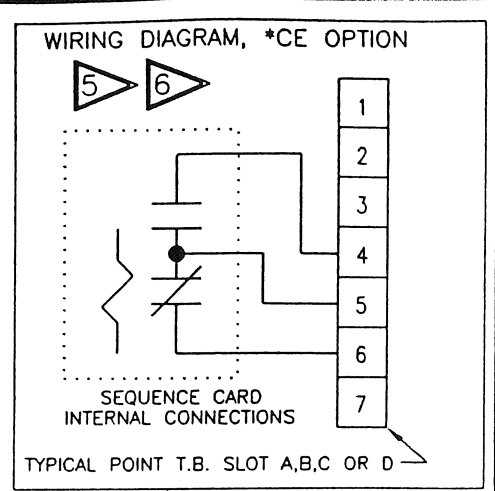
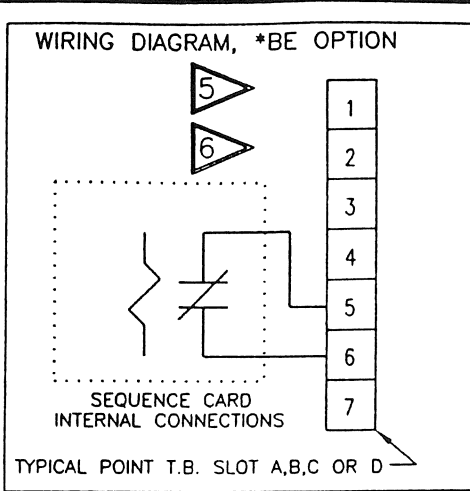
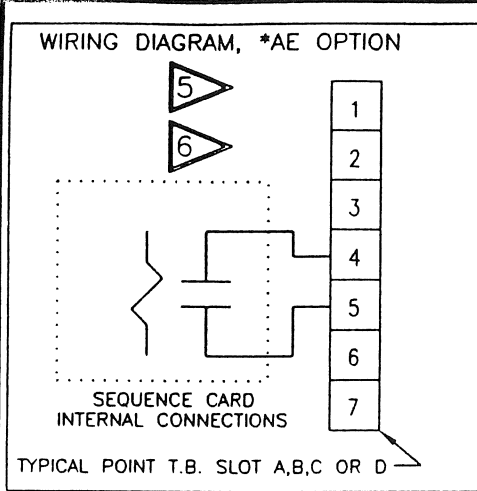




















**PANALARM** 1725 WESTERN DRIVE, WEST CHICAGO, IL., 60185, U.S.A.  
PHONE: 1-630-231-5900 FAX: 1-630-231-4502

TOLERANCE UNLESS SPECIFIED		INCH		THIRD ANGLE PROJECTION	
INCHES      MILLIMETERS .X = .040      X.O = 1.0 .XX = .015      O.X = 0.4 .XXX = .005      0.XX = 0.1 ANGLES      ±0°30'		(MM)			
REV	ECN NO.	BY	APPD	DATE	SCALE NONE © 1999
00	7097-69B	SK	CNL	11/04/99	DRWN BY S. KUNCA
01	11872	SK	MAL	6/15/01	APPD CNL
					DATE 11/04/99
					91450-MB02-1-01-01.dwg
					SHEET 1 OF 2



WIRING DIAGRAM, SERIES 90,  
JUMPER CONFIGURATIONS  
MODEL 91MB02



OPTION CODE	INPUT STATUS	N.O. CONTACT STATUS  	N.C. CONTACT STATUS  	DESCRIPTION
4CE	NORMAL			FOLLOWS CONTACT ONLY
	ALARM			
	TEST			
6CE	NORMAL			ON ONLY WHEN HORN IS ACTIVE
	ALARM			
	ACK			
	TEST			



**PANALARM**

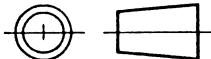
1725 WESTERN DRIVE, WEST CHICAGO, IL., 60185, U.S.A.  
PHONE: 1-630-231-5900 FAX: 1-630-231-4502

TOLERANCE UNLESS SPECIFIED

INCHES	MILLIMETERS
.X = .040	X.0 = 1.0
.XX = .015	0.X = 0.4
.XXX = .005	0.XX = 0.1
ANGLES	±0°30'

INCH  
↔  
(MM)

THIRD ANGLE PROJECTION



**AMETEK**

REV	ECN NO.	BY	APPD	DATE	SCALE NONE	© 1999
01	SEE SHT 1				DRWN BY S. KUNCA	
					APPD CNL	
					DATE 11/04/99	
					91450-MB02-1-01-02.dwg	
					SHEET 2 OF 2	

WIRING DIAGRAM, SERIES 90,  
JUMPER CONFIGURATIONS  
MODEL 91MB02



DWG. NO. 91450-MB02-1

-A-