

Fire Burglary Instruments, Inc.

50 Engineers Road, Hauppauge, New York 11787



INSTALLATION INSTRUCTIONS

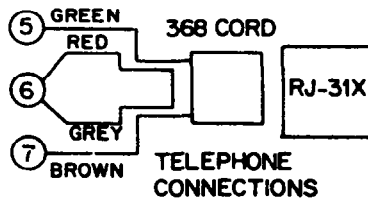
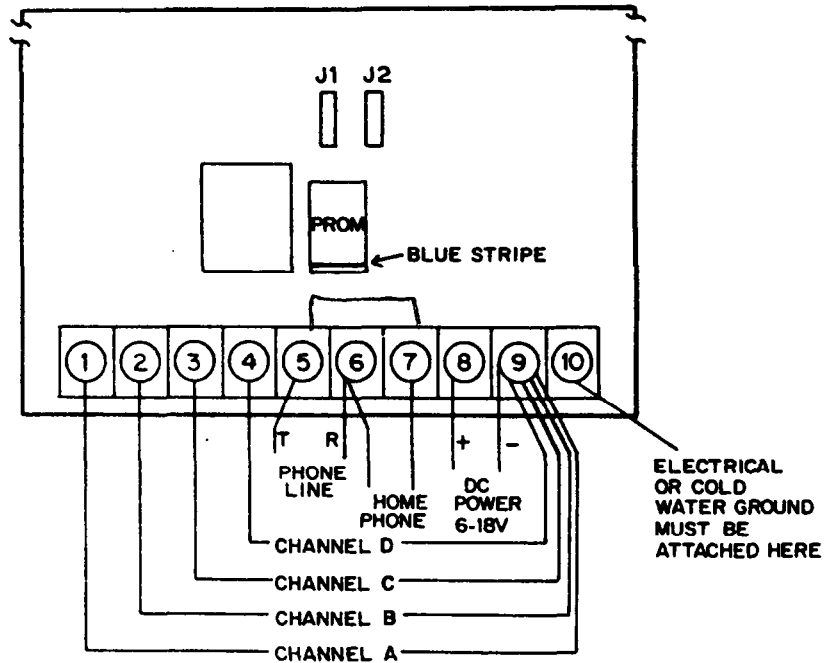
Remember "We do what they don't"

DIGITAL COMMUNICATOR

"D1270 HEX"
HAS PROCESSOR

Computer-based Model 113 has 4 channels and will operate from any 6-18 volt DC power source.

Operation is controlled by a plug-in programmable chip. Four independent programs may be stored on the chip. The communicator is normally in standby, drawing less than 2 mA from the line. A positive voltage on any channel activates the device, the line is seized, a red L.E.D. turns on and dialing starts. The "prom" is factory or field programmable on our Model 110 Programmer.



TERMINALS	DESCRIPTIONS																				
Terminals 1 & 9	<p>Channel A is activated by a voltage, terminals 1(+) to 9(-), or by dry contact closure, terminals 8 to 1:</p> <table border="1" data-bbox="431 544 1214 832"> <thead> <tr> <th>INPUT</th> <th>RESTORE OPT. SELECTED</th> <th>OUTPUT</th> <th>RESTORE OUTPUT</th> </tr> </thead> <tbody> <tr> <td>MAINTAINED</td> <td>YES</td> <td>ALARM CODE</td> <td>YES</td> </tr> <tr> <td>MAINTAINED</td> <td>NO</td> <td>ALARM CODE</td> <td>NO</td> </tr> <tr> <td>MOMENTARY</td> <td>YES</td> <td>NO</td> <td>YES</td> </tr> <tr> <td>MOMENTARY</td> <td>NO</td> <td>ABORTS</td> <td>NO</td> </tr> </tbody> </table>	INPUT	RESTORE OPT. SELECTED	OUTPUT	RESTORE OUTPUT	MAINTAINED	YES	ALARM CODE	YES	MAINTAINED	NO	ALARM CODE	NO	MOMENTARY	YES	NO	YES	MOMENTARY	NO	ABORTS	NO
INPUT	RESTORE OPT. SELECTED	OUTPUT	RESTORE OUTPUT																		
MAINTAINED	YES	ALARM CODE	YES																		
MAINTAINED	NO	ALARM CODE	NO																		
MOMENTARY	YES	NO	YES																		
MOMENTARY	NO	ABORTS	NO																		
Terminals 2 & 9	<p>Channel B is activated by a voltage, terminals 2(+) to 9(-), or by dry contact closure, terminals 8 to 2:</p> <table border="1" data-bbox="431 949 1214 1236"> <thead> <tr> <th>INPUT</th> <th>RESTORE OPT. SELECTED</th> <th>OUTPUT</th> <th>RESTORE OUTPUT</th> </tr> </thead> <tbody> <tr> <td>MAINTAINED</td> <td>YES</td> <td>ALARM CODE</td> <td>YES</td> </tr> <tr> <td>MAINTAINED</td> <td>NO</td> <td>ALARM CODE</td> <td>NO</td> </tr> <tr> <td>MOMENTARY</td> <td>YES</td> <td>ABORTS</td> <td>NO</td> </tr> <tr> <td>MOMENTARY</td> <td>NO</td> <td>ALARM CODE</td> <td>NO</td> </tr> </tbody> </table>	INPUT	RESTORE OPT. SELECTED	OUTPUT	RESTORE OUTPUT	MAINTAINED	YES	ALARM CODE	YES	MAINTAINED	NO	ALARM CODE	NO	MOMENTARY	YES	ABORTS	NO	MOMENTARY	NO	ALARM CODE	NO
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MAINTAINED	YES	ALARM CODE	YES																		
MAINTAINED	NO	ALARM CODE	NO																		
MOMENTARY	YES	ABORTS	NO																		
MOMENTARY	NO	ALARM CODE	NO																		
Terminals 3 & 9	<p>Channel C is activated by a voltage, terminals 3(+) to 9(-), or by dry contact closure, terminals 8 to 3. Channel operates the same as Channel A, except that a momentary is lengthened to 30 seconds.</p>																				
Terminals 4 & 9	<p>Channel D is activated by a voltage, terminals 4(+) to 9(-), or by dry contact closure, terminals 8 to 4. There is no restore option.</p> <table border="1" data-bbox="626 1513 967 1661"> <thead> <tr> <th>INPUT</th> <th>OUTPUT</th> </tr> </thead> <tbody> <tr> <td>MAINTAINED</td> <td>ALARM CODE</td> </tr> <tr> <td>MOMENTARY</td> <td>ABORTS</td> </tr> </tbody> </table>	INPUT	OUTPUT	MAINTAINED	ALARM CODE	MOMENTARY	ABORTS														
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Terminals 5, 6 & 7	Phone Line Connections: Connect tip to 5 and ring to 6. Home phone is across 6 and 7. For 368 hook-up see the diagram.
Terminals 8 & 9	Apply DC 6 to 15 volts to terminals 8(+) & 9(-). This voltage may be used to activate the channels thru dry contact closure. The communicator in standby draws less than 2mA. Transmitting, (the LED on), it draws less than 250mA at 18 volts, less than 200mA at 6V inputs.
Terminal 10	Grounding Terminal: Attach to electrical or cold water ground.
Red L.E.D.	Red L.E.D. on indicates communicator is active and has seized the phone line.
Jumpers J1 & J2	Jumpers determine which quadrant of the prom controls the communicator. See Truth Table for connection.
Plug-in Prom	Phone numbers, receiver type, account code and other information are programmed into the prom, National part number DM74S387N. Use our Model 110 Programmer. Read the 110 instructions carefully before operating. See below for 113 alarm code information. IMPORTANT: Plug the prom in with blue stripe down, as shown in the diagram.

Jumper Set Up: The prom contains 4 separate sections (quadrants), only one of which is active. The Truth Table shows jumper connections vs. the corresponding 110 Programmer switch settings:

TRUTH TABLE

QUADRANT	113 COMMUNICATOR		110 PROGRAMMER	
	J1	J2	S7	S8
1	Jumped	Jumped	South	South
2	Cut	Jumped	North	South
3	Jumped	Cut	South	North
4	Cut	Cut	North	North

PROGRAMMING OF ALARM CODES

In the 110 Programmer Instructions, follow steps 1 through 9 under "Making a Program Chip." Continue as follows:

ROW	ENTER CODE	DESCRIPTION
1		Enter code selected for Channel A.
2		Enter code selected for Channel B.
3		Enter code selected for Channel C.
4	F	Always enter code F.
5		Enter code for Channel D.
6		Enter code for restore.
7	F	Always enter code F.
8	F	Always enter code F.
9		Select restore Channel C. Enter 0 or F.
10		Select restore Channel B. Enter 0 or F.
11		Select restore Channel A. Enter 0 or F.

The channels are listed in the order of decreasing priority. If a channel is transmitting and a higher priority channel activates, the higher priority code will be sent. Note that restore has the least priority.

Fill in the blank spaces in the ENTER CODE column above as follows:

- A. Enter the codes chosen for Channels A, B, C and D in the proper row.
- B. Enter the code chosen for restore in row 6. Note there is only one restore code which applies to all channels selected for restore.
- C. Decide if a restore is wanted on each of Channels C, B, A. Where restore is wanted, enter code 0, otherwise F, in the appropriate row 9, 10 or 11.
- D. Check that a code letter appears in all 11 rows under "Enter Code" above.
- E. Check that the programmer is displaying AL.
- F. Now beginning with row 1, enter the codes in order on the programmer.
IMPORTANT: No code can be omitted. Code F does not display when keyed, but a blank space is generated. Codes 1 thru 6 appear on the top line of the display, 7 thru 11 below.

All the data has now been entered into the programmer. Proceed with steps 11 and 12 in the procedure for making a program chip.