7000 Series Keypad

DESCRIPTION

7000 Series Keypads provide a momentary voltage output when the user-programmed 4 or 5 digit code is entered. Use this output to arm/disarm alarm systems, trip panic zones, activate a relay to control door locks, shunt bypasses, or operate garage door openers. Eight two digits codes are also available.

SET THE CODE LENGTH

Header H1 selects a five or four digit code. The keypad is shipped with a jumper in the "C" and "5" position on this header, which sets the keypad for a 5 digit code.

To select a four digit code:
1) Remove the circuit board
2) Locate the Header (H1)
3) Remove the small black jumper
4) Re-install the jumper on "C" and "4"

H1 must be installed for keypad operation.

SELECTING A CODE

1) Locate the five colored programming code wires packed in the plastic parts bag with the mounting hardware.

2) Locate the code bank on the circuit board. It has 17 socket positions which are printed on the circuit board.

3) Sockets A B C D E represent the five possible digits of the code. Socket A is the first digit, B the second, C the third, D the fourth, and E the fifth.

4) Program the first digit of the code by placing one end of a code wire in the A position and the other end in the desired digit. Repeat the process for the remainder of the selected digits. Digits can only be used once.

Connections for the code 14735:
A to 1 B to 4 C to 7 D to 3 E to 5
If selecting a four digit code, "E" is not used.

5) Attach the circuit board. Align socket "S2" with the 13 pins on the keypad and carefully press the socket onto the pins.

WIRE CONNECTIONS

Red (+) positive 6-24 VDC supply voltage input. This voltage should be filtered, regulated, uninterrupted and able to supply a minimum of 50mA for the keypad, and 20mA for each LED backlite. (-) negative VDC supply voltage input.

Review the chart on the back page. If your panel is not listed, find the arm/disarm terminals marked "keyswitch". One terminal is the arm/disarm terminal and, in most cases, the other is constant positive or negative voltage. Connect the white or Blue for positive voltage. Connect the Green wire for negative voltage. DO NOT CONNECT BOTH WIRES!

Wire multiple keypads in parallel by connecting LEDs and outputs back to the control panel.

LED CONNECTIONS:
The Yellow wire is negative (-). The other wire on the LED is positive (+).

If the other wire is illuminated 12VDC, Green Red 6VDC or 24VDC.

MAIN CODE OPERATION

When the correct code is entered, the Blue wire switches to a positive level or the Green wire switches to a negative level. The voltage will remain present as long as the last digit of the code is depressed. These are transistor outputs not relay contacts. Corby supplies a variety of relays, listed below, to fit most applications.

RELAYS/RELAY MODULES

Use the following relay modules if dry circuit relay contacts are required:

Model 86: Used for a single zone shunt, activating a door lock, or operating a garage door opener with an LED status.

Model 74: Controls two independent latching shunts with an LED status.

Model 78: Used to trip a dialer or zone.

For the main output only:
Model 25: (6 or 12 VDC) momentary relay

Model 22: (12 VDC) latching (on/off) relay .

SECONDARY CODES

Touching two buttons simultaneously can give you up to eight - two digit codes to activate a Corby relay (models 74, 78 or 86). The two digit codes can trip a dialer for panic, shunt a zone, activate a door lock, etc.

USING TWO-DIGIT CODES

The first digit of the main code is always the first digit of all the two-digit codes. The second digit is selectable and can be any unused digit on the keypad. The keypad and any module must share a common ground connection. The two digit codes trigger any other device other than those listed.

1) Insert the Brown diode code wire (included with the mounting hardware) in the Code Bank socket position that corresponds with the second control button.

2) Connect the stranded end of the wire to the positive (+) trigger of the 86, 78 or 74.

3) Touching the first button of the main code and the second control button simultaneously will trigger the module.

For Panic operation:
1) Insert the Brown diode code wire #70 (included with the mounting hardware) in the selected Code Bank socket.

2) Connect the stranded end of the wire to any positive input terminal of your alarm control or digital dialer that is active 24 hours a day. The trigger is 1mA at 12 VDC.

3) If momentary relay contacts are required, connect the stranded end of the program wire to the positive trigger input of a Corby Model 78 low-level relay module.

LIMITED WARRANTY

Corby Industries, Inc. and/or the seller's only obligation shall be to replace such quantity of the product proved to be defective. Neither the seller nor Corby shall be liable for any injury, loss, or damage arising out of the use or the inability to use this product, including the warranty of merchantability or fitness for normal use. Before using, the user shall determine the suitability of the product for his intended use. The user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be altered except by an agreement signed by the officers of the seller and those of Corby Industries, Inc.

SPECIFICATIONS

Input Voltage: 6-24 Volts DC Only
Outputs: (+) or (-) Voltage Driver 30 0mA MAX
Operating Temp: -18C to 55C (0F to 131F)
Dimensions:
Single gang:2.75" X 4.5"(53 X 40mm)
Double gang:4.56" X 4.5" (115 X 114mm)
Heavy Duty:3.23" X 5.0"(84 X 127mm)
Lock Box:4.75" X 5.3"(120 X 133mm)
Power Consumption:

Voltage	Idle	Operating
6V	4mA	14mA
12V	8mA	30mA
24V	21mA	70mA

MODEL 7100 CROSS REFERENCE CHART

PANEL TYPE			POWER		ARM/DISARM		PANIC	LEDS			
Manufacturer	Model	No. of Wires Required	RED Wire	BLK Wire	GRN Wire	BLU Wire	Needs 1 Wire	RED YEL	RED RED	GRN YEL	GRN RED
Acron	PAS-1 WC	5	11	10	NC	6	(X1)	3	11	5	11
Alarm Controls	6129	5	1	8	NC	2	(X2)	3	1	4	1
Alarm Controls	6130	5	21	20	NC	22	(X2)	2	21	1	21
Alarm Controls	6131	5	11	16	NC	2	(X2)	3	11	4	11
Ademco	332R/342R	5	16	19	NC	(X3)	(X2)	17	16	19	14
Ademco	4080	5	B5	A20	NC	B4	(X2)	A20	A17	A20	A18
Aritech	CS-200	5	26	1	NC	3	(X2)	1	5	1	4
Caddi	6012	5	15	16	NC	12	5	14	15	13	15
DTI	772	5	15	16	26	NC	(X2)	16	5	16	7
DTI	DS51/52	5	16	15	12	NC	(X2)	15	10	15	8
FBI	642	5	25	24	NC	28	(X2)	27	25	26	25
FBI	1215XL/1213	5	7	20	NC	8	10	23	7	22	7
FBI	1270	6	12	10	NC	11	19	21	14	13	12
FBI	1272	5	25	14	NC	6	8	28	25	24	25
FBI	1290A	5	16	15	NC	6	8	21	16	17	16
FBI	XL1219UL	4	25	26	NC	24	NC	23	25	NC	NC
Franklin	12B	4	(+)	(-)	(X3)	NC	EM	(-)	RL	(-)	GL
Guardware	CU-22	5	29	11	NC	36	20	35	29	34	29
Guardware	CU-66	5	6	34	NC	5	(X2)	2	6	3	6
Micro State	630	5	2	3	4	NC	9	3	5	3	6
Micro State	633	5	2	3	4	NC	11	3	5	3	6
Micro State	643	5	5	7	8	NC	16	9	7	10	7
Moose	MPI-25	5	5	4	NC	8	6	23	5	24	5
Moose	MPI-26	5	15	16	NC	13	14	11	15	12	15
Moose	MPI-50	5	7	4	NC	(X4)	6	23	7	24	7
NAPCO	CCI-5	5	15	24	NC	12	7	11	15	10	15
NAPCO	BB-5	5	9	5	NC	10	18	11	9	12	9
NAPCO	CCI-7	5	26	27	NC	4	(X2)	3	26	2	26
NAPCO	CCI-8	5	31	32	NC	9	20	6	31	7	31
Radionics	3012	4	3	7	NC	(X3)	13	7	6	7	8
Radionics	4012/8012	5	3	26	23	NC	(X1)	26	25	26	31
Securtec	1295	4	6	5	11	NC	NC	12	6	10	6
Securtec	Auditor 11	4	6	5	12	NC	NC	5	13	5	14
Sescoa	2520	5	2	1	NC	3	10	1	4	5	2
Silent Knight	2020	5	4	18	NC	14	25	18	19	18	20
Surgard	CC911/CC912	5	B3	B4	B12	NC	A5	B4	A2	A1	B3
Surgard	SG411/SG411SM	5	B3	B4	B12	NC	A5	B4	A2	A1	B3
Surgard	SG911FA4/Z	5	B3	B4	B6	NC	A18	B4	A15	A14	B3
USP	MC6	5	6	14	NC	5	12	8	6	7	6
USP	MC7	5	9	22	NC	10	(X2)	12	9	11	9
USP	MC4A/MC5A	5	5	11	NC	4	9	7	5	6	5

X1 For panic operation, use a Brown diode code wire #70 (included in the plastic parts bag) to connect a Code Bank Socket to any 24hr loop "input terminal" of the control panel which accepts a positive voltage for activation. Connect the stranded end of the Program Wire to the panel.

X2 Panic operation requires the use of a Model 78 Sensitivity Relay Module. Connect a Brown diode code wire #70 between the selected Code Bank Socket and the positive trigger input of the Model 78. Now, use the dry relay contact of the Model 78 to activate the panic circuit of the panel.

X3 Use a Corby Model #25 Model SPDT relay or any other relay with a coil resistance of 100 ohms or more. Connect the black wire of the Model #25 to constant negative (-) and connect the blue wire (+) of the #7100 Decoder Module to the red wire of the #25. Then, connect the normally open contacts of the #25 relay to the keyswitch terminals.

X4 A 1N4001 diode is required in series with the blue wire from the keypad to Terminal #8. The striped side of the diode goes towards the panel.