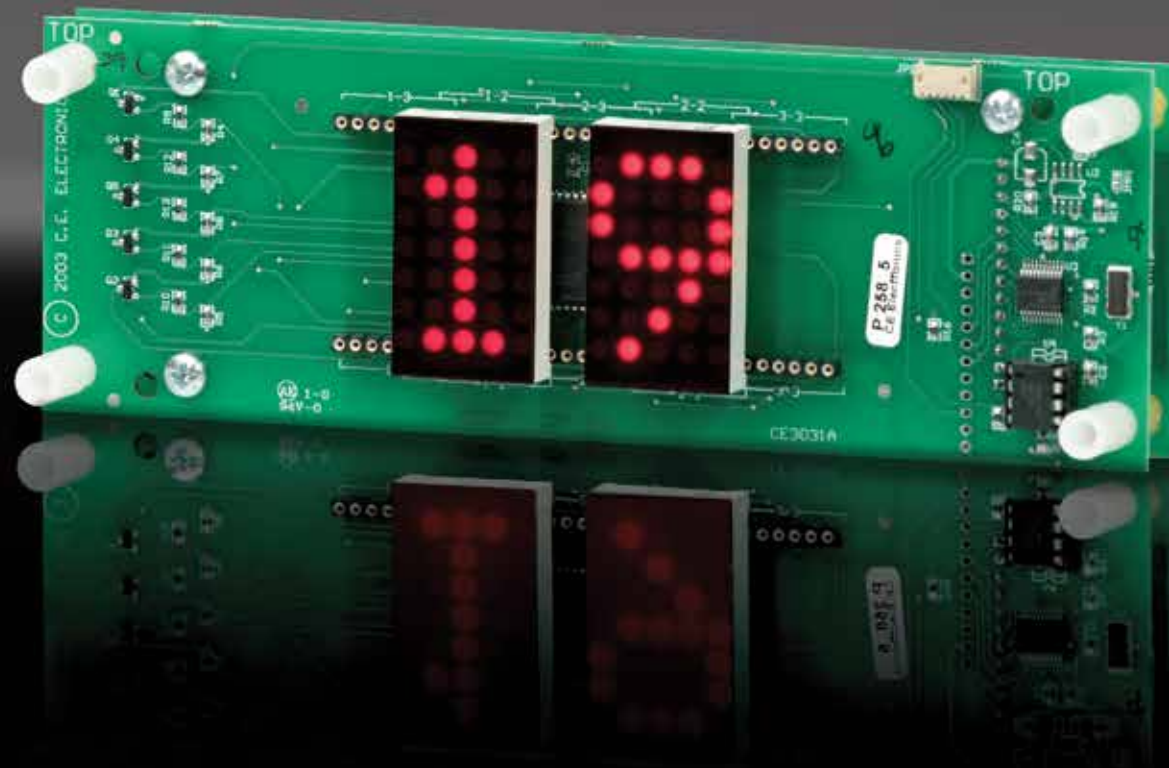


# > DH210-XXXXX

## DOT MATRIX LED DIGITAL INDICATOR



## DOT MATRIX

### 1" CHARACTERS

Dot Matrix LED digital indicator for floor position display, as well as car direction, if desired. Any alphanumeric or custom character can be displayed in either single digit with arrow or double digit floor designations.

#### TYPICAL APPLICATIONS:

- > Car-OP Panel
- > Transom-car or Hall

#### FEATURES:

- > Low cost design
- > Self contained unit
- > Latched input
- > Self testing
- > Scrolling
- > Passing chime output
- > Error detection and
- > correction feature
- > UL listed

#### METAL:

- > 70100002



**C.E. Electronics, Inc.**  
C.E. Electronics, Ltd.  
International Lift Equipment (ILE)

2107 Industrial Drive Bryan, OH 43506  
Marlow, Bucks, UK  
Highams Park, London, UK

ph: 419.636.6705  
ph: +44 (0) 1628 487633  
ph: 0208 527 9669

[www.cееlectronics.com](http://www.cееlectronics.com)  
[www.cееlectronics.co.uk](http://www.cееlectronics.co.uk)  
[www.ileweb.com](http://www.ileweb.com)



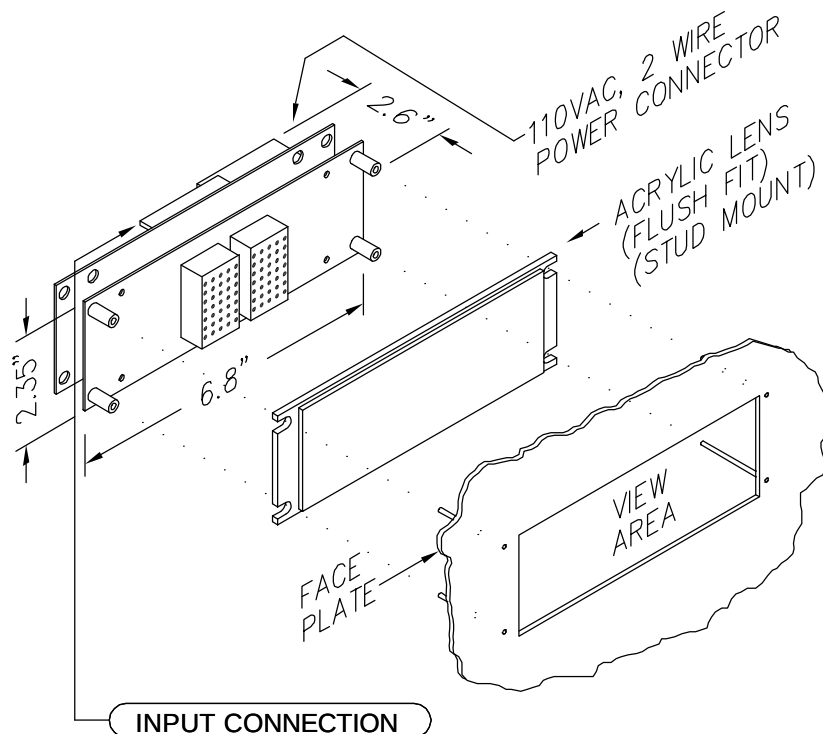


C.E. Electronics, Inc.  
2107 Industrial Drive  
Bryan, OH 43506  
PH (419) 636-6705 FX (419) 636-2516  
[www.ceelectronics.com](http://www.ceelectronics.com)

# DH210-XXXXX

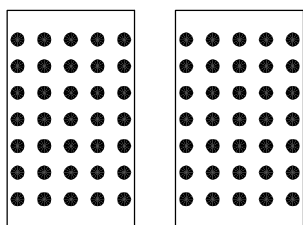
Ver. 5 Rel. 04/28/10

COMPETITOR  
DOT MATRIX



## INPUT CONNECTION

8' CABLE SUPPLIED WITH PLUG-IN  
CONNECTOR SUPPLIED



1" CHARACTERS

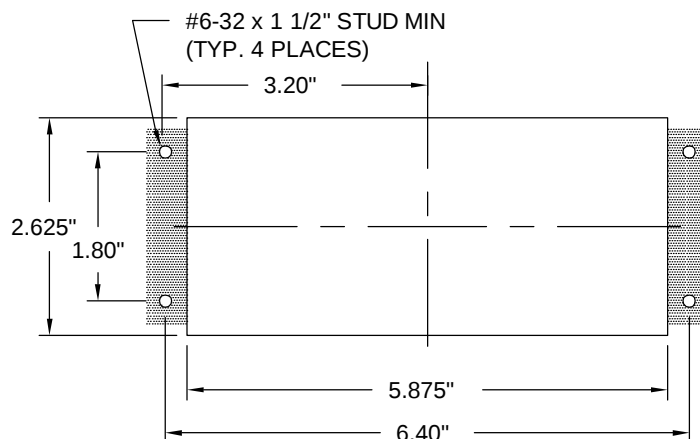
## NOTE:

1. If a special voltage is required, please consult factory.
2. \*110VAC not required for power supply on Micro Comm units
3. \*Blue can not be mixed with other colors

## RENEWAL PARTS

Lens: 104-5575 RED  
Lens: 104-6075 GRAY  
Lens: 104-9075 BLUE

## PANEL PREPARATION



CUTOUT TOLERANCE: +.020  
- 0.0

## DOT MATRIX LED DIGITAL INDICATOR

Dot matrix LED digital indicator for floor position display, as well as car direction, if desired. Any alphanumeric or custom character can be displayed in either single digit with arrow or double digit floor designations.

## Typical Applications

- Car-OP Panel
- Transom-car or Hall

## Features

- Low cost design
- Self contained unit
- Latched input
- Self testing
- Scrolling
- Passing chime output
- Error detection and correction feature
- UL listed

## TO ORDER:-SPECIFY DH210 - X X X X X

### COLOR:

"0" = MIXED  
"R" = RED  
"A" = AMBER  
"G" = GREEN  
"B" = BLUE \*

### NUMBER OF INPUTS:

"0" = 16 INPUT OR LESS  
"1" = 31 INPUT  
"M" = MICRO COMM \*

### LENS:

"R" = RED  
"G" = GRAY  
"B" = BLUE  
"X" = NO LENS

### SIGNAL FORMAT:

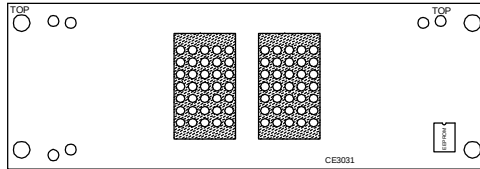
"1" = SINGLE LINE/FLOOR  
"2" = BINARY  
"3" = UNITS & TENS  
"4" = GRAY CODE  
"5" = INVERTED BINARY  
"6" = SPECIAL  
"X" = IF MICRO COMM

### SIGNAL VOLTAGE:

"A" = POSITIVE 6-20VDC, 6-24VAC  
"B" = POSITIVE 24-48VDC, 24-48VAC  
"C" = 120VAC  
"D" = POSITIVE 125VDC  
"E" = NEGATIVE 6-20VDC  
"F" = NEGATIVE 24-48VDC  
"G" = NEGATIVE 125VDC  
"X" = IF MICRO COMM

# DH210/310-XM

JOB# \_\_\_\_\_



DISPLAY BOARD# \_\_\_\_\_

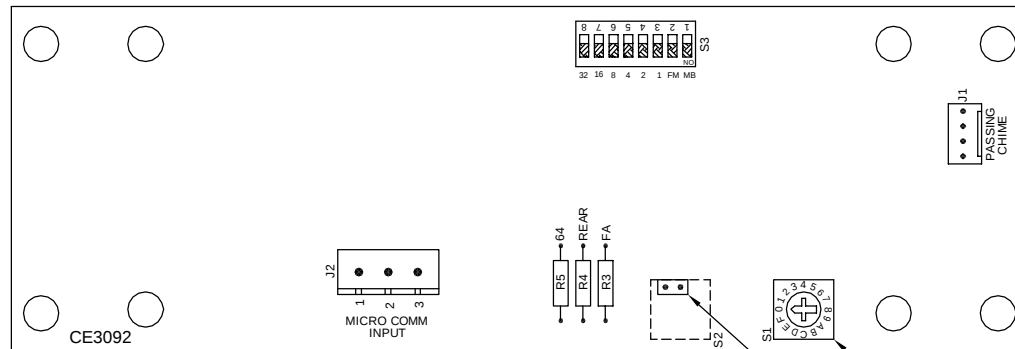
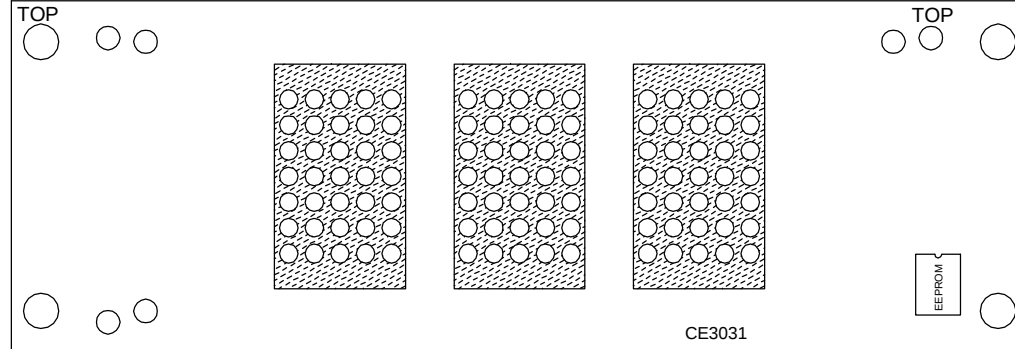
CODE VERSION \_\_\_\_\_

FLOORS: \_\_\_\_\_

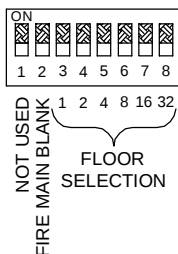
ROTARY SWITCH S1 \_\_\_\_\_

DRIVER BOARD# \_\_\_\_\_

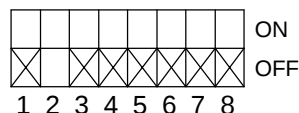
CODE VERSION \_\_\_\_\_



## S3 DIP SWITCH DETAIL



## S3 DEFAULT SETTINGS



To SELF-TEST display unit, short the two pins on the S2 header and release. NOTE: If S2 is a rotary switch, set it to "F" and back to 0 to self-test.

DIP switch 1 (MB) has no function with this unit.

The Micro Comm driver must be programmed to send messages with the level required to activate the features listed below.

- To blank the display during a fire main (level three) message, turn on DIP switch 2 (FM).
- To blank the display during a fire alternate (level two) message, remove resistor R3 (FA) from the board.
- Do not program a floor value for Floor 63 if the Fire Blanking feature is required.

DIP switches 3-8 off is an all call using travel signals. DIP switches 3-8 on and resistor R5 (64) removed is an all call using arrival signals.

The floor address switches setup the display arrows as arrival (hall) arrows. Refer to the "S3 DIP SWITCH DETAIL" and turn on the floor address switches whose value adds up to the desired floor. For example, to display the arrows only when the unit is at floor 19, turn on switches 3, 4, and 7 (values 1, 2, and 16: 1+2+16=19). The Micro Comm driver must be set up to send arrival information.

To operate this unit as a rear lantern, remove resistor R4 (REAR) from the board. NOTE: The Micro Comm driver must be sending the MC2000 data stream to use this feature. Call Tech Support at 419-636-6705 for more information.

NOTE: MUST BE USED WITH A CLASS 2 POWER SUPPLY.

|                                                |                         |                     |                                                                                        |
|------------------------------------------------|-------------------------|---------------------|----------------------------------------------------------------------------------------|
| DATE DRAWN:<br>07/11/05                        | DRAWN BY:<br>DAC        | REQUESTED BY:<br>DV | C.E. ELECTRONICS, INC.<br>2107 Industrial Drive<br>Bryan, Ohio 43506<br>(419) 636-6705 |
| BOARD NUMBER:<br>3092, 3031                    | LAST DATE REVISED:<br>- | APPROVED BY:        |                                                                                        |
| PRODUCT:<br>DH210/310-XM MICRO COMM DOT MATRIX |                         |                     |                                                                                        |
| DWG. NO.:<br>DHX10-XM 01                       |                         |                     | REV:<br>-                                                                              |

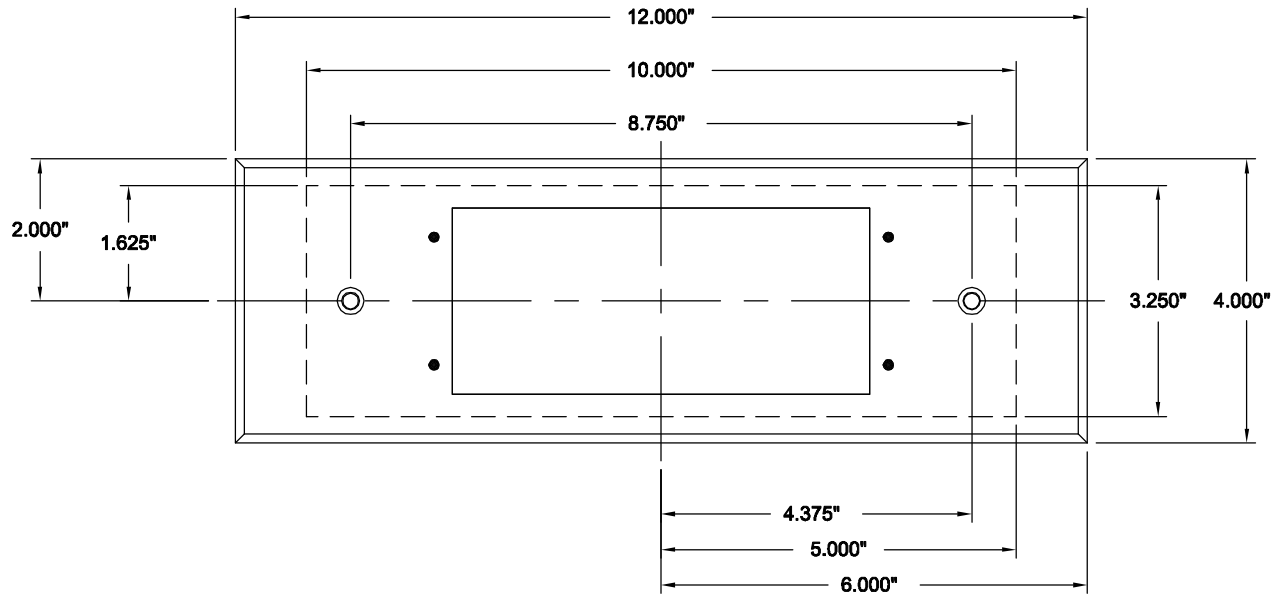


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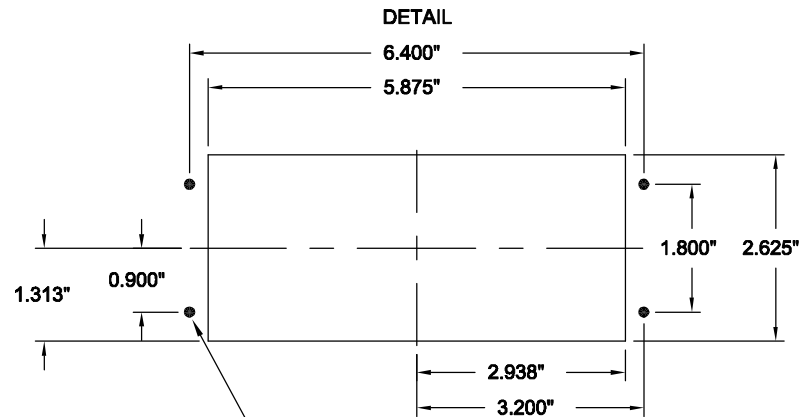
# 70100002

Ver. 1 Rel. 06/18/03

**METAL**



**COVERPLATE / BOX FOR 2 or 3 DIGIT  
1" OR 2" DOT MATRIX DISPLAY**



**#6-32 x 1 3/4" STUD MIN (TYP. 4 PLACES)**

**NOTES:**

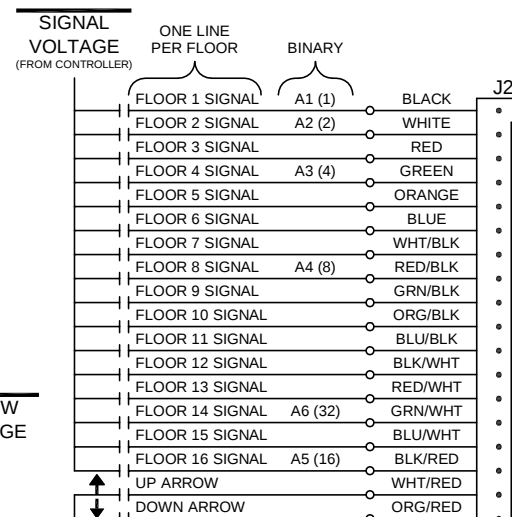
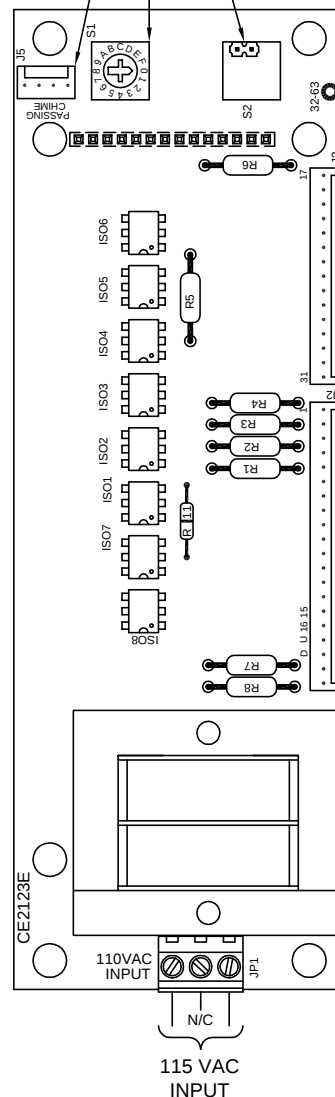
#4 STAINLESS STEEL, .125"  
HORIZONTAL GRAIN  
BEVELED EDGES - APPROXIMATELY 15°  
GALVANIZED BOX REQUIRED, 3.5" DEEP, NO EXTRUDED BOX  
COUNTERSINK MOUNTING HOLES FOR #10-32 TAMPERPROOF SCREW

JOB# \_\_\_\_\_

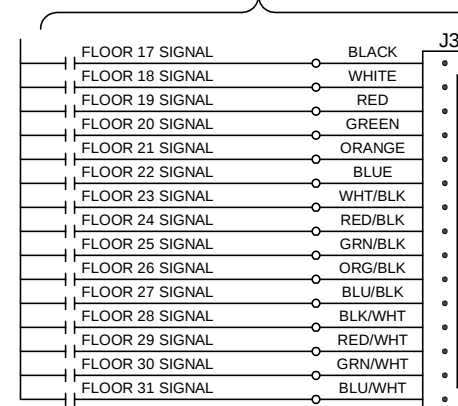
SCROLL RATE:  
0 = NO SCROLL  
1 = FAST SCROLL  
F = SLOW SCROLL

SELF-TEST JACK:  
SHORT PINS TO TEST  
SHORT PINS TO STOP TEST

OPTIONAL CHIME PORT



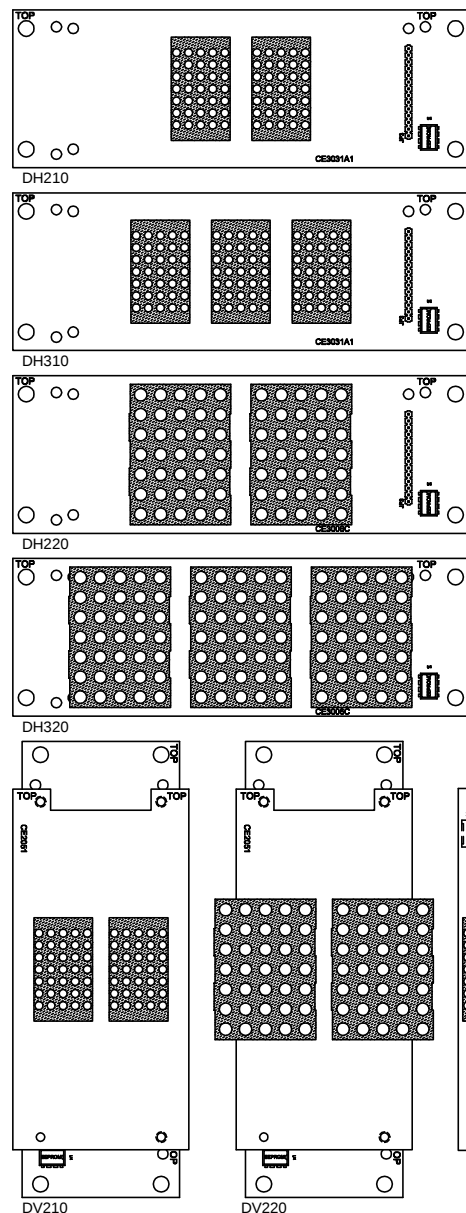
ONLY USED FOR ONE LINE PER FLOOR ABOVE 16 FLOORS



SEE NOTE ( ) BELOW

NOTE A: THE SIGNAL AND ARROW COMMONS ARE TIED TOGETHER ON THE DRIVER BOARD. IF ARROW SOURCE IS DIFFERENT THAN SIGNAL SOURCE, CONTACT TECH SUPPORT AT 419-636-6705 FOR FURTHER INFORMATION.

NOTE B: THE SIGNAL AND ARROW COMMONS HAVE BEEN SEPARATED BY THE FACTORY.



DRIVER BOARD CE2123 \_\_\_\_\_

VERT DISPLAY BOARD CE \_\_\_\_\_ ROTARY SWITCH S1 \_\_\_\_\_

HORIZ DISPLAY BOARD CE \_\_\_\_\_ CODE VERSION \_\_\_\_\_

## Competitor Series

### Discrete Input Dot Matrix Displays

|                                         |                               |                     |                                                                                               |
|-----------------------------------------|-------------------------------|---------------------|-----------------------------------------------------------------------------------------------|
| DATE DRAWN:<br>04/24/07                 | DRAWN BY:<br>DAC              | REQUESTED BY:<br>DV | <b>C.E. ELECTRONICS, INC.</b><br>2107 Industrial Drive<br>Bryan, Ohio 43506<br>(419) 636-6705 |
| BOARD NUMBER:<br>2123                   | LAST DATE REVISED:<br>-       | APPROVED BY:        |                                                                                               |
| PRODUCT<br>DISCRETE DOT MATRIX DISPLAYS | DWG. NO.<br>DM_2123_3006_3031 | REV.<br>-           |                                                                                               |

## BINARY FLOOR CHART

## BINARY BITS

A7 A6 A5 A4 A3 A2 A1  
 64 32 16 8 4 2 1

|               |               |               |               |
|---------------|---------------|---------------|---------------|
| 1000000 _____ |               |               |               |
| 0111111 _____ | 0101111 _____ | 0011111 _____ | 0001111 _____ |
| 0111110 _____ | 0101110 _____ | 0011110 _____ | 0001110 _____ |
| 0111101 _____ | 0101101 _____ | 0011101 _____ | 0001101 _____ |
| 0111100 _____ | 0101100 _____ | 0011100 _____ | 0001100 _____ |
| 0111011 _____ | 0101011 _____ | 0011011 _____ | 0001011 _____ |
| 0111010 _____ | 0101010 _____ | 0011010 _____ | 0001010 _____ |
| 0111001 _____ | 0101001 _____ | 0011001 _____ | 0001001 _____ |
| 0111000 _____ | 0101000 _____ | 0011000 _____ | 0001000 _____ |
| 0110111 _____ | 0100111 _____ | 0010111 _____ | 0000111 _____ |
| 0110110 _____ | 0100110 _____ | 0010110 _____ | 0000110 _____ |
| 0110101 _____ | 0100101 _____ | 0010101 _____ | 0000101 _____ |
| 0110100 _____ | 0100100 _____ | 0010100 _____ | 0000100 _____ |
| 0110011 _____ | 0100011 _____ | 0010011 _____ | 0000011 _____ |
| 0110010 _____ | 0100010 _____ | 0010010 _____ | 0000010 _____ |
| 0110001 _____ | 0100001 _____ | 0010001 _____ | 0000001 _____ |
| 0110000 _____ | 0100000 _____ | 0010000 _____ | 0000000 _____ |

## INSTALLATION GUIDE

1. MAKE SURE THE INPUT RESISTORS ARE FULLY SEATED IN THEIR SOCKETS.
2. CONNECT 115VAC TO THE OUTER TERMINALS OF CONNECTOR J1. THE CENTER TERMINAL HAS NO CONNECTION.
3. SHORT THE TWO PINS OF S2 (TEST JACK) TOGETHER. THE DISPLAY WILL CYCLE THROUGH THE FLOOR DATA. THIS SHOWS WHAT FLOOR MARKINGS WILL BE DISPLAYED AND ALLOWS ADJUSTMENT OF THE SCROLL RATE AND OPTIONAL PASSING CHIME VOLUME.
4. MAKE SURE THE SIGNAL CABLE(S) IS PLUGGED INTO THE DRIVER BOARD CORRECTLY.
5. CONNECT THE SIGNAL CABLE(S) TO THE CONTROLLER. THE VOLTAGE AND DC POLARITY ARE MARKED ON THE REVERSE SIDE. THE UNIT WORKS LIKE A LIGHT BULB; IT NEEDS VOLTAGE FROM COMMON TO THE SELECTED INPUT.
6. IF THE INPUT IS DC AND YOU SUSPECT THE POLARITY IS WRONG, PUT THE SELECTED FLOOR WIRE TO COMMON AND COMMON TO THE SELECTED FLOOR INPUT. IF THE UNIT DISPLAYS THE FLOOR, CONTACT TECH SUPPORT.
7. IF THE INPUT FORMAT IS SINGLE LINE PER FLOOR, ONLY ONE WIRE SHOULD HAVE VOLTAGE PRESENT (WITH REFERENCE TO COMMON) AT ANY TIME.
8. IF THE UNIT DOES NOT SEEM TO WORK PROPERLY, RECHECK THE ABOVE STEPS. IF THE PROBLEM CONTINUES, RECORD THE SERIAL NUMBER FROM THE WHITE LABEL ON THE UNIT AND EXACTLY WHAT THE UNIT DISPLAYS AT EACH FLOOR, THEN CONTACT TECH SUPPORT AT 419-636-6705.

|                                                 |                         |                     |                                                                                                                                                                                 |
|-------------------------------------------------|-------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DATE DRAWN:<br>04/24/07                         | DRAWN BY:<br>DAC        | REQUESTED BY:<br>DV | <br>C.E. ELECTRONICS, INC.<br>2107 Industrial Drive<br>Bryan, Ohio 43506<br>(419) 636-6705 |
| BOARD NUMBER:<br>N/A                            | LAST DATE REVISED:<br>- | APPROVED BY:        |                                                                                                                                                                                 |
| PRODUCT<br>COMPETITOR SERIES BINARY FLOOR CHART |                         |                     |                                                                                                                                                                                 |
| DWG. NO.<br>COMP_BINCHART_TJ                    |                         |                     | REV:<br>-                                                                                                                                                                       |