

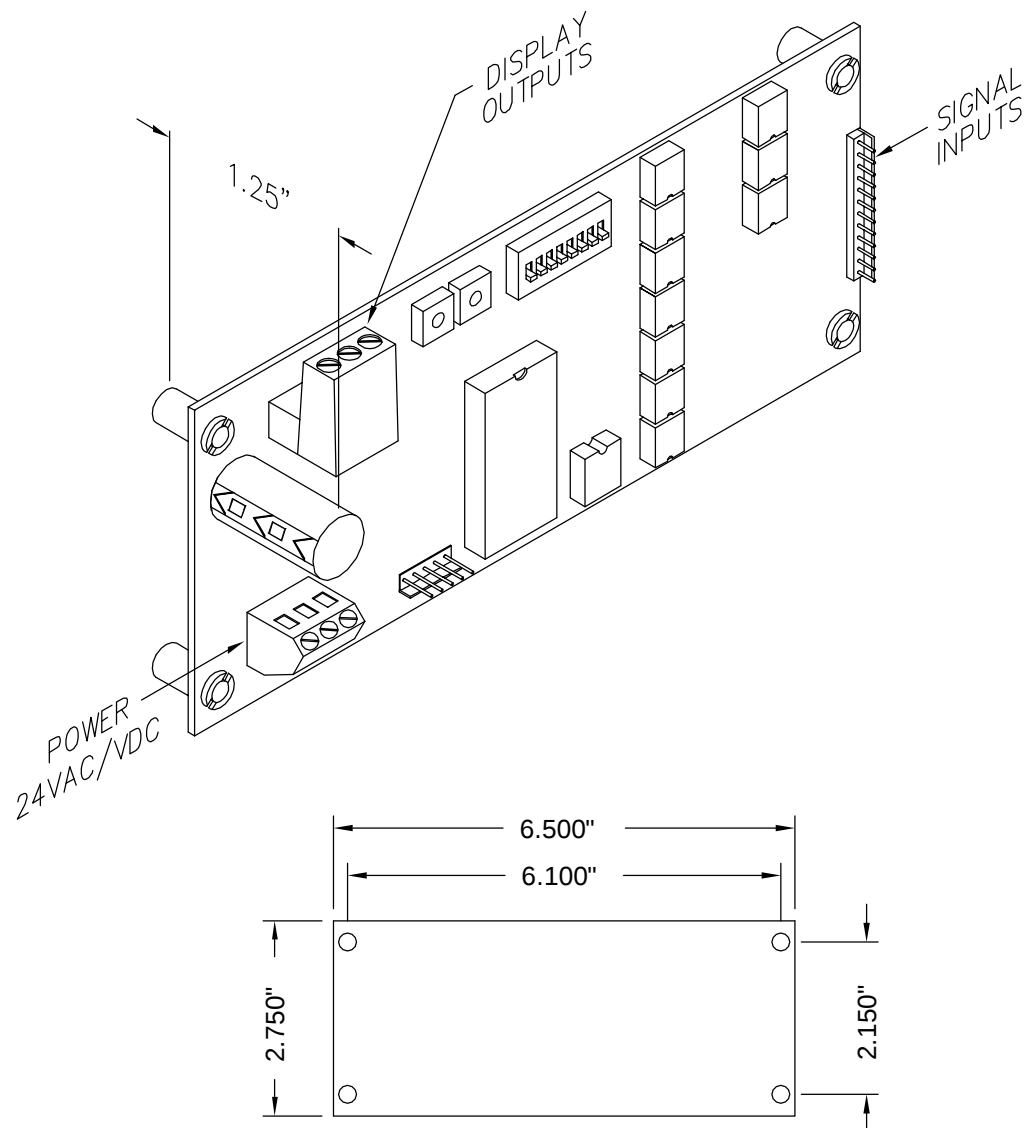


C.E. Electronics, Inc.
2107 Industrial Drive
Bryan, OH 43506
PH (419) 636-6705 FX (419) 636-2516
www.ccelectronics.com

SHCDUE-XXX

Ver. 1 Rel. 06/18/02

MICRO COMM[®]
DRIVERS



CONTROL DRIVER BOARD

This unit was designed to be a compact low voltage display driver board. The board is capable of driving up to 30 displays remote from itself. The number of displays driven is subject to the power supply provided. Any Micro Comm series can be utilized with this unit.

Features:

- Latched inputs
- Cross wire protected
- Self testing
- Alternate message
- Passing chime output
- Remote Display
- Self-contained
- 24 volt power supply
- Error detection and correction feature
- 8 Inputs & Up/Down

TO ORDER: - SPECIFY SHCDUE - X X X

SIGNAL VOLTAGE:

- "A" = POSITIVE 6-20VAC/DC, 24 VAC
- "B" = POSITIVE 24-48VDC, 48VAC
- "C" = POSITIVE 120VAC
- "D" = POSITIVE 125VDC
- "E" = NEGATIVE 6-20VDC
- "F" = NEGATIVE 24-48VDC
- "G" = NEGATIVE 125VDC

SIGNAL FORMAT:

- "1" = SINGLE LINE/FLOOR *
- "2" = BINARY
- "3" = UNITS & TENS *
- "4" = GRAY CODE
- "5" = INVERTED BINARY
- "6" = SPECIAL

BUILD:

- "B" = with BOX & COVER
- "X" = no BOX or COVER

NOTE:

- *1. May need additional decoder card.
2. If a special voltage is required, please consult factory.

SHCDUE

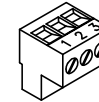
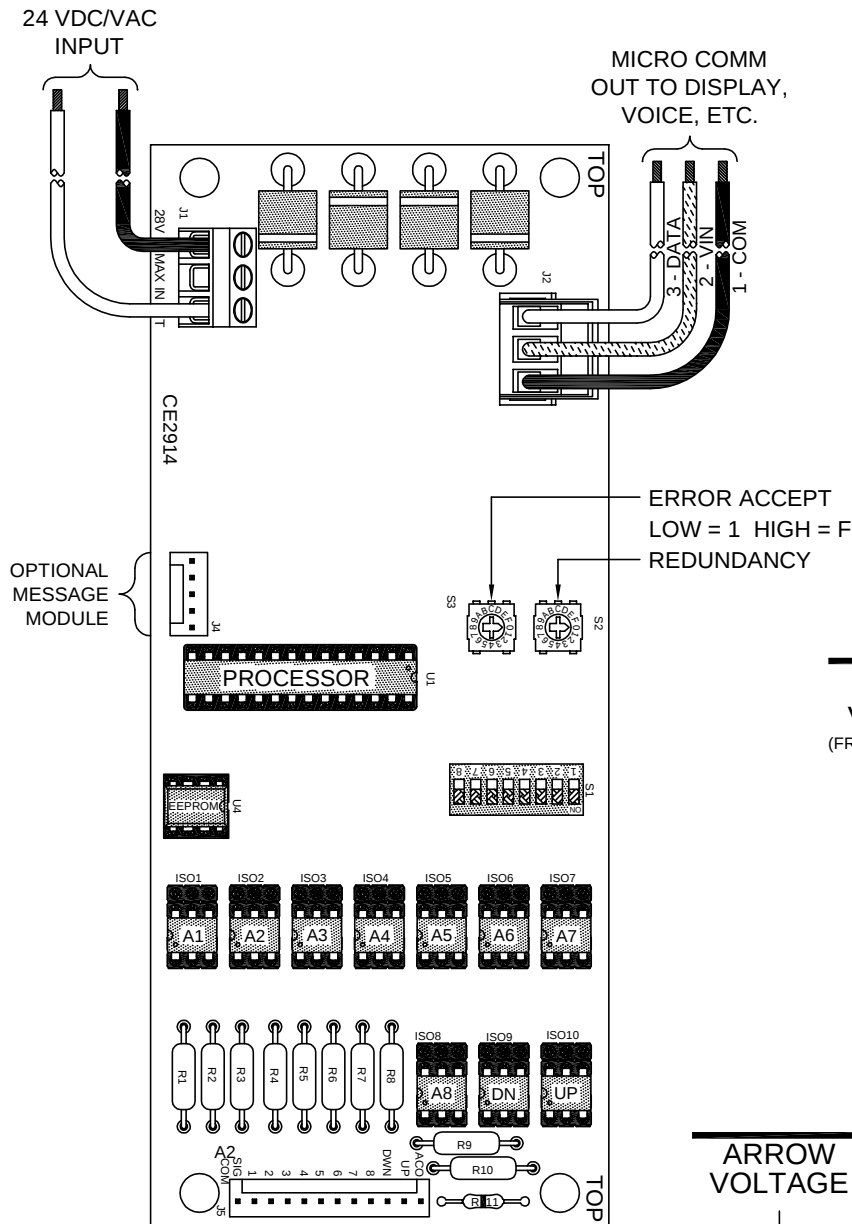
JOB# _____

ROTARY SWITCH S2 _____

ROTARY SWITCH S3 _____

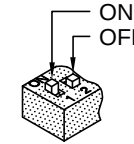
CODE VERSION _____

BOARD VERSION CE2914 _____



POSITION INDICATOR INPUT
CONNECTS TO MICRO COMM DRIVER
OUTPUT (1 TO 1, 2 TO 2, 3 TO 3).

8	INVERT MSG MOD DATA
7	NOT USED
6	ZERO SCAN SLOT
5	MSG PORT MODE
4	MSG/ARR COMBO
3	PLAY STROBE INVERT
2	FAST SELF-TEST
1	SELF-TEST

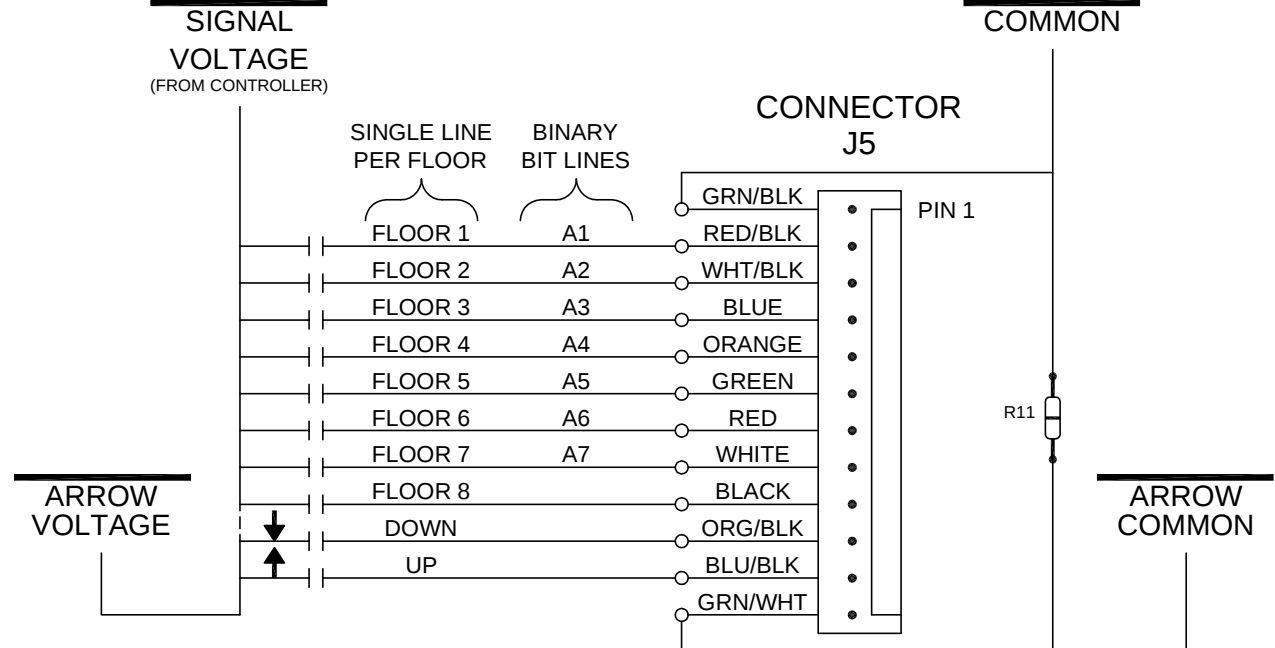


DEFAULT SETTINGS								
								ON
								OFF
1	2	3	4	5	6	7	8	

NOTE: OPTOS ARE SHOWN IN THE POSITIVE POSITION. FOR NEGATIVE POLARITY, THE OPTOS ARE INSTALLED IN THE OTHER SET OF SOCKETS.

NOTE: COMMONS ARE TIED TOGETHER. IF FLOOR SIGNAL AND ARROW VOLTAGES ARE DIFFERENT, COMMONS MAY BE SEPARATED. CONTACT TECH SUPPORT AT 419-636-6705 FOR MORE INFORMATION.

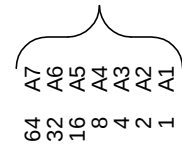
BINARY CHART ON BACK



DATE DRAWN: 03/28/03	DRAWN BY: DAC	REQUESTED BY: DC	 C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43506 (419) 636-6705
BOARD NUMBER: 2914	LAST DATE REVISED: 12/16/10	APPROVED BY:	
PRODUCT SHCDUE EUROPEAN CCU			
DWG. NO. SHCDUE-01			REV: A

BINARY FLOOR CHART

BINARY BITS



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. Supply 24VDC/VAC power to the outer terminals of connector J1. The center terminal is not connected.
2. Turn on DIP switch one to start self-test. The unit will cycle through the floor/message data. Verify the floor markings displayed are the ones required for the job.
3. Verify the input resistors are fully seated in their sockets.
4. Connect the unit to the controller through the 12-pin MTA connector. The voltage, polarity, and input connections are marked on the reverse side of this diagram. This unit works like a light bulb. It must have voltage from common to the selected input.
5. For Single Line per Floor connections, there should only be one floor input wire with voltage present (with reference to common) at any time.
6. If the unit fails to operate properly, write down the serial number from the white job label on the unit and exactly what is displayed for each floor input .
Contact Customer Tech Support at 419-636-6705.

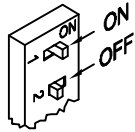
DATE DRAWN: 12/07/10	DRAWN BY: DAC	REQUESTED BY: DAC	C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43306 (419) 636-6705
BOARD NUMBER: N/A	LAST DATE REVISED: -	APPROVED BY:	
PRODUCT SHCDUE BINARY FLOOR CHART			
DWG. NO. SHCDUE-03			REV: -

CONNECTION DIAGRAM SHCDUE (EUROPEAN BUILD)

BD.# 3022

JOB# _____

DIPSWITCH LEGEND



24VAC
POWER
INPUT

NO
CONNECTION

ERROR ACCEPTANCE
LOW = 1 HIGH = 15
REDUNDANCY
LOW = 1 HIGH = 15

MESSAGE
MODULE
INPUT

ROTARY
SWITCHES

ON OFF

PROCESSOR

ISO3 ISO4 ISO5 ISO6 ISO7 ISO8 ISO9

ISO2 ISO1

FLOOR SIGNAL INPUTS

DIP SWITCH DETAIL

- 1 TEST MODE
- 2 DOOR STROBE & ARRIVAL ARROW DELAY
- 3 INPUT TEST/DOOR STROBE INVERT
- 4 MESSAGE CARD DOOR STROBE & ARRIVAL ARROWS
- 5 BINARY MESSAGE INPUTS
- 6 ZERO SCAN SLOT
- 7 NOT USED
- 8 MESSAGE INPUT SELECT

OUTPUT TO
DISPLAY, VOICE, ETC.
1 TO 1, 2 TO 2, 3 TO 3

DIP SWITCH #2 - DOOR STROBE & ARRIVAL ARROW DELAY

OFF - NO DELAY
ON - .2 SEC DELAY IN DOOR STROBE & ARRIVAL
ARROWS TRANSMISSION

DIP SWITCH 1 & 2 ON - FAST SELF TEST

DIP SWITCH #3 - INPUT TEST/DOOR STROBE INVERT

OFF - ACTIVE HIGH DOOR STROBE
ON - ACTIVE LOW DOOR STROBE

DIP SWITCH 1 & 3 ON - FLOOR AND ARROW INPUT OPTO TEST

DIP SWITCH #4 - MESSAGE CARD DOOR STROBE &
ARRIVAL ARROW SELECT

OFF - ALL INPUTS FROM MESSAGE CARD ARE MESSAGES
ON - INPUTS 6, 7, 8 ON MESSAGE CARD ARE UP, DOWN
ARRIVAL ARROWS, AND DOOR STROBE RESPECTIVELY

DIP SWITCH #5 - BINARY MESSAGE INPUTS

OFF - INPUTS ARE SINGLE LINE PER MESSAGE
ON - INPUTS ARE BINARY FORMAT PER MESSAGE

DIP SWITCH #6 - ZERO SCAN SLOT

OFF - ZERO SCAN SLOT NOT USED
ON - USE ZERO SCAN SLOT

DIP SWITCH #8 - MESSAGE INPUT SELECT

OFF - USE NORMAL INPUTS
ON - USE INVERTED INPUTS

DEFAULT SETTINGS

☐	☐	☐	☐	☐	☐	☐	☐	ON
☐	☐	☐	☐	☐	☐	☐	☐	OFF
1	2	3	4	5	6	7	8	

ROTARY SWITCH #S2 _____

ROTARY SWITCH #S3GS _____

CODE VERSION _____

BOARD 3022 _____

SIGNAL
VOLTAGE
(FROM CONTROLLER)

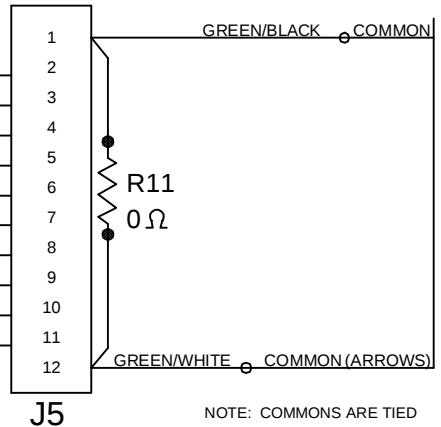
ONE LINE
PER FLOOR

BINARY

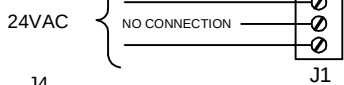
FLOOR 1 SIGNAL	A1	RED/BLACK
FLOOR 2 SIGNAL	A2	WHITE/BLACK
FLOOR 3 SIGNAL	A3	BLUE
FLOOR 4 SIGNAL	A4	ORANGE
FLOOR 5 SIGNAL	A5	GREEN
FLOOR 6 SIGNAL	A6	RED
FLOOR 7 SIGNAL	A7	WHITE
FLOOR 8 SIGNAL	A8	BLACK
DOWN ARROW		ORANGE/BLACK
UP ARROW		BLUE/BLACK

CONNECTOR

COMMON

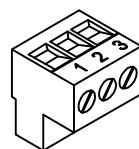


NOTE: COMMONS ARE TIED
TOGETHER. IF ARROW VOLTAGE
IS DIFFERENT THAN FLOOR
SIGNAL VOLTAGE, COMMONS
MAY BE SEPARATED. PLEASE
CONTACT FACTORY.



Wires ENTER FROM THIS SIDE
ON ALL MTA STYLE CONNECTORS.

TYPICAL REMOTE DISPLAY CHIME PORT
CONNECT TO C.E. PART #MPCB-1 ONLY.



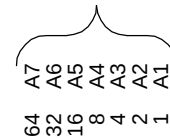
TYPICAL REMOTE DISPLAY
TERMINAL CONNECTS ONLY TO MICRO
COMM DISPLAYS OR VOICE UNITS.

NOTE: IF BINARY, CHART ON BACK!

DATE DRAWN: 12/04/03	DRAWN BY: D.W.S.	REQUESTED BY: M.W.	C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43506 (419) 636-6705
BOARD NUMBER: 3022	LAST DATE REVISED:	APPROVED BY:	
PRODUCT SHCDU EUROPEAN CCU			
DWG. NO. SHCDUE-02			REV:

BINARY FLOOR CHART

BINARY BITS



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. Supply 110VAC power to the outer terminals of connector J1. The center terminal is not connected.
2. Turn on DIP switch one to start self-test. The unit will cycle through the floor/message data. Verify the floor markings displayed are the ones required for the job.
3. Verify the input resistors are fully seated in their sockets.
4. Connect the unit to the controller through the 12-pin MTA connector. The voltage, polarity, and input connections are marked on the reverse side of this diagram. This unit works like a light bulb. It must have voltage from common to the selected input.
5. For Single Line per Floor connections, there should only be one floor input wire with voltage present (with reference to common) at any time.
6. If the unit fails to operate properly, write down the serial number from the white job label on the unit and exactly what is displayed for each floor input . Contact Customer Tech Support at 419-636-6705.

DATE DRAWN: 06/23/05	DRAWN BY: DAC	REQUESTED BY: DAC	 C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43806 (419) 636-6705
BOARD NUMBER: N/A	LAST DATE REVISED: -	APPROVED BY:	
PRODUCT: SMCDU BINARY FLOOR CHART			
DWG. NO. SMCDU008			REV. -