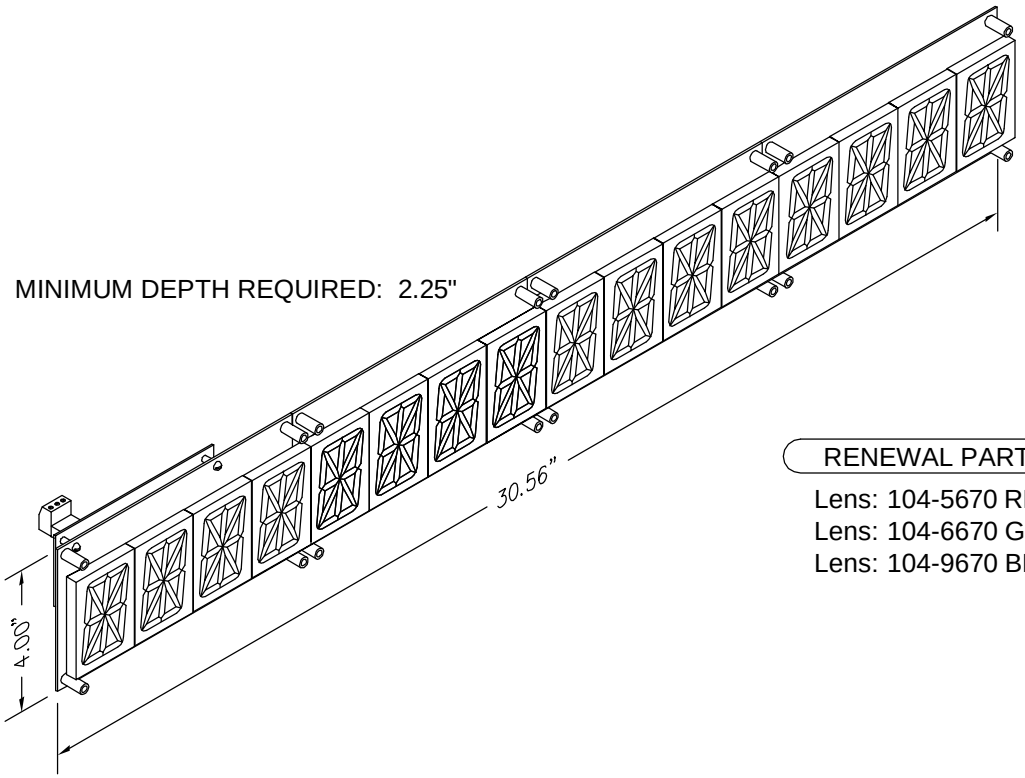
C.E. Electronics, Inc.
2107 Industrial Drive
Bryan, OH 43506
PH (419) 636-6705 FX (419) 636-2516
www.ceelectronics.com

MSL22-XXX

Ver. 3 Rel. 05/24/10

ACCESSORIES



SCROLLING MESSAGE DISPLAY

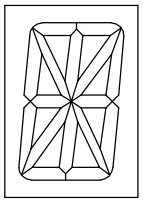
Versatile scrolling message displays any alphanumeric character within a 2.2 inch LED 16 digit screen. Various messages can be selected via binary inputs or through C.E.'s Micro Comm 3 wire network. When used with Mtime-x the time, date, and temperature can be displayed as part of a message or it can be shown in a static format. The display is capable of 63 different messages (119 characters per message max). The display is capable of continuous scrolling or can be programmed to scroll in and stop then flash.

RENEWAL PARTS

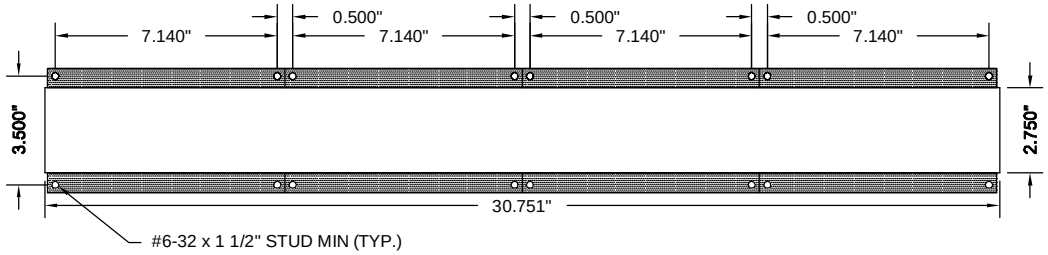
Lens: 104-5670 RED
Lens: 104-6670 GRAY
Lens: 104-9670 BLUE

Features:

- 63 messages
- Scroll in/Scroll out
- Continuous scroll
- Adjustable flashing
- Adjustable blanking
- Binary inputs
- 10-150VAC/DC inputs



2.2" character



TO ORDER:-SPECIFY MSL22 - X X X

COLOR:
"R" = RED
"G" = GREEN
"B" = BLUE

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
"M" = MICRO COMM

SIGNAL FORMAT:
"1" = SINGLE LINE/FLOOR *
"2" = BINARY
"3" = UNITS & TENS *
"4" = GRAY CODE
"5" = INVERTED BINARY
"6" = SPECIAL
"M" = MICRO COMM

*MAY NEED ADDITIONAL DECODER CARD

*REMOTE POWER SUPPLY
Use PS_____(Required to this display)

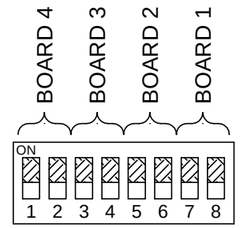
NOTE:

1. If a special voltage is required, please consult factory.
2. To display time, date, or temperature, must purchase as a system which includes MTIME-X and MPROG module. A computer interface is optional.

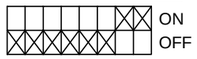
2" SCROLLING DISPLAY

WITH CE2447 DRIVER BOARD

JOB# _____



DEFAULT SETTINGS



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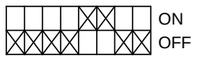
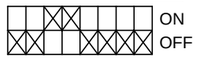


DEFAULT SETTINGS



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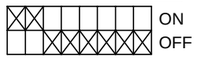
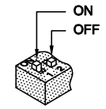
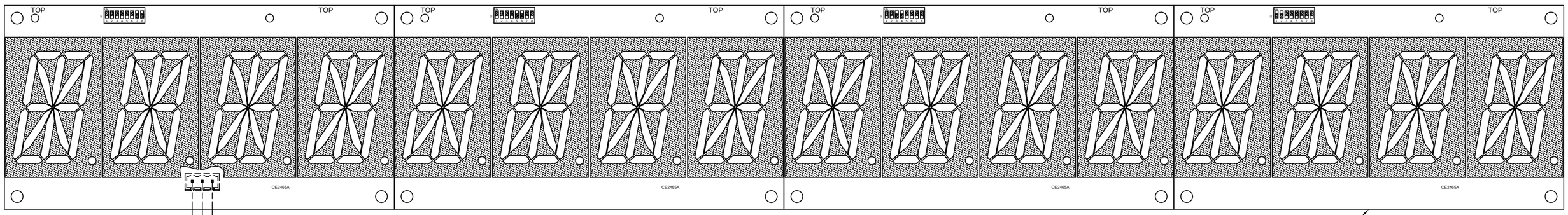






MICRO COMM
INPUT
(CONNECTOR ON BACK)

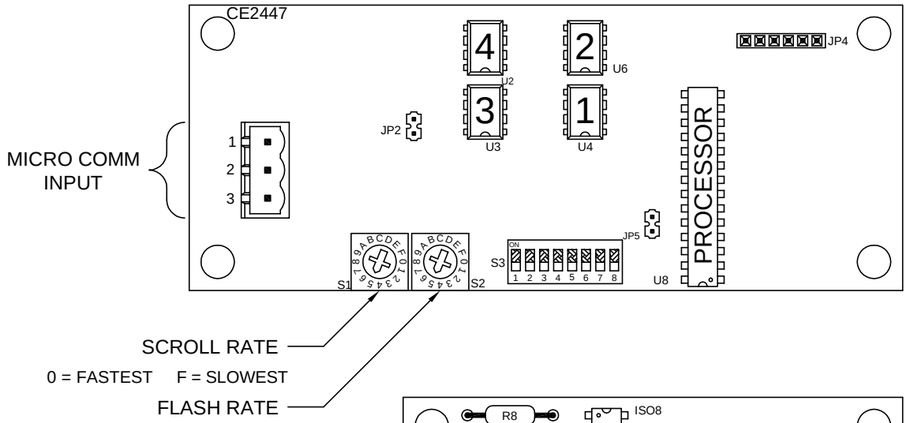
CE2447 DRIVER LOCATED ON
BACK OF THIS DISPLAY BOARD

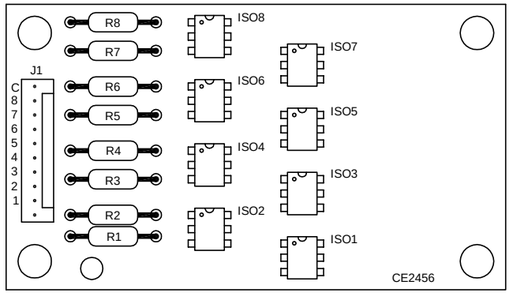
CODE VERSION _____

BOARD VERSION CE2465 ____

DATE DRAWN: 09/15/10	DRAWN BY: DAC	REQUESTED BY: DV	C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43506 (419) 636-6705
BOARD NUMBER: 2465	LAST DATE REVISED: -	APPROVED BY:	
PRODUCT: 2" SCROLLING DISPLAY WITH CE2447 DRIVER			DWG. NO. MSL22_01 / REV: -

MICRO COMM (CCU) INPUT AND DISPLAY DRIVER BOARD





ROTARY SWITCH S1 _____

ROTARY SWITCH S2 _____

DISCRETE (OPTO) INPUT BOARD

DIP Switch Settings:

Display Mode Selection (DIP switches 1 - 2)

DS1	DS2	MODE
0	0	STANDARD MESSAGE MODE
1	0	MESSAGE EEPROM TEST MODE
1	1	TEST MODE 2 - DISPLAY TEST
0	1	DESTINATION MODE

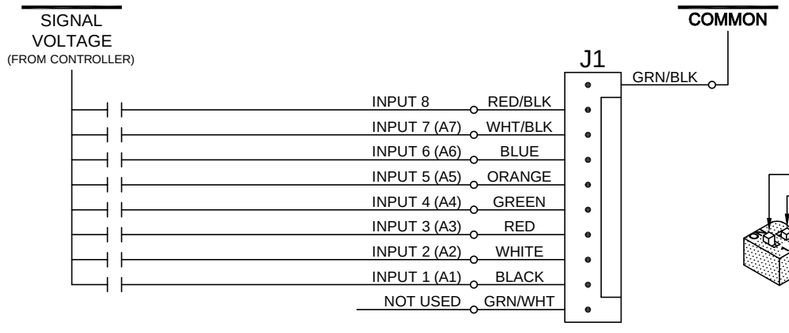
NOTE: Destination Mode uses CCU Run Mode 3 to display messages when no floors are active.

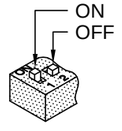
Standard Message Mode Options (DIP switches 3 - 5)

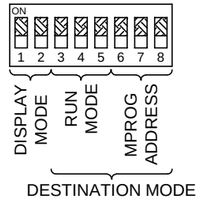
DS3	DS4	DS5	RUN MODE
0	0	0	CCU RUN MODE 1
1	0	0	CCU RUN MODE 2
0	1	0	CCU RUN MODE 3
1	1	0	CCU RUN MODE 4
0	0	1	OPTO INPUT Binary / Non-Latching
1	0	1	OPTO INPUT SLPF / Non-Latching
0	1	1	OPTO INPUT Binary / Latching
1	1	1	OPTO INPUT SLPF / Latching

MPROG Display ID (DIP switches 6 - 8) - Standard Msg Mode

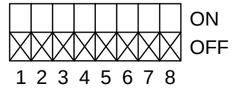
DS6	DS7	DS8	ADDRESS
0	0	0	DISPLAY ID - 1
1	0	0	DISPLAY ID - 2
0	1	0	DISPLAY ID - 3
1	1	0	DISPLAY ID - 4
0	0	1	DISPLAY ID - 5
1	0	1	DISPLAY ID - 6
0	1	1	DISPLAY ID - 7
1	1	1	DISPLAY ID - 8







DEFAULT SETTINGS



DESTINATION MODE: DIP Switches 3 - 8 are used for the destination address (binary 0-63).

CODE VERSION _____

DRIVER BOARD VERSION CE2447 _____

OPTO BOARD VERSION CE2465 _____

SCROLLING DISPLAY - MODES OF OPERATION

1 - MESSAGE TEST MODE - Scrolls through the messages programmed into the EEPROMS.

2 - DISPLAY TEST MODE - Continually scrolls the message “TEST MODE 2. *0”.

3 - CCU RUN MODE 1 - SCAN MODE - Up to 64 messages (0 - 63) are displayed according to the FLOOR or SCAN NPUTS. Priority Messages are ignored.

4 - CCU RUN MODE 2 - LATCHED MESSAGE MODE - Up to 63 messages (1 - 63) are displayed according to the PRIORITY MESSAGE INPUTS. Floor inputs are ignored. NOTE: Since the message inputs are latched, default message “0” is not available.

5 - CCU RUN MODE 3 - NON-LATCHED MESSAGE MODE - Up to 64 messages (0 - 63) are displayed according to the PRIORITY MESSAGE INPUTS. Floor inputs are ignored. NOTE: Since the message inputs are non-latched, default message “0” is available.

NOTE: IN DESTINATION MODE WITH NO ACTIVE DESTINATIONS: The display uses CCU RUN MODE 3 to display messages.

6 - CCU RUN MODE 4 - MIXED MODE, UNLATCHED MESSAGE PRIORITY - The first 56 messages (0-55) are displayed according to the FLOOR or SCAN INPUTS. The last eight messages (56-63) are displayed according to the PRIORITY MESSAGE INPUTS. If no PRIORITY MESSAGE inputs are active, the FLOOR input is displayed. As soon as **ANY** PRIORITY MESSAGE input is activated, that priority message is displayed.

7 - OPTO INPUT MODE 1 - BINARY / NON-LATCHING - The inputs are read in binary format and are not latched. The available message numbers are 0 - 63.

8 - OPTO INPUT MODE 2 - SLPF / NON-LATCHING - The inputs are read as Single Line Per Floor and are not latched. If more than one input is active at the same time, it is considered invalid and will register as 0. The available message numbers are 0 - 8.

9 - OPTO INPUT MODE 3 - BINARY / LATCHING - The inputs are read in binary format and are latched. The available message numbers are 1 - 63.

10 - OPTO INPUT MODE 4 - SLPF / LATCHING - The inputs are read as Single Line Per Floor and are latched. The available message numbers are 1 - 8.

DATE DRAWN: 09/15/10	DRAWN BY: DAC	REQUESTED BY: DV
BOARD NUMBER: 2447, 2465	LAST DATE REVISED: 04/15/11	APPROVED BY:
PRODUCT: SCROLLING DISPLAY WITH 2447 DRIVER - SETUP		

C.E. ELECTRONICS, INC.
2107 Industrial Drive
Bryan, Ohio 43506
(419) 636-6705

DWG. NO. MSL22_02 REV. B