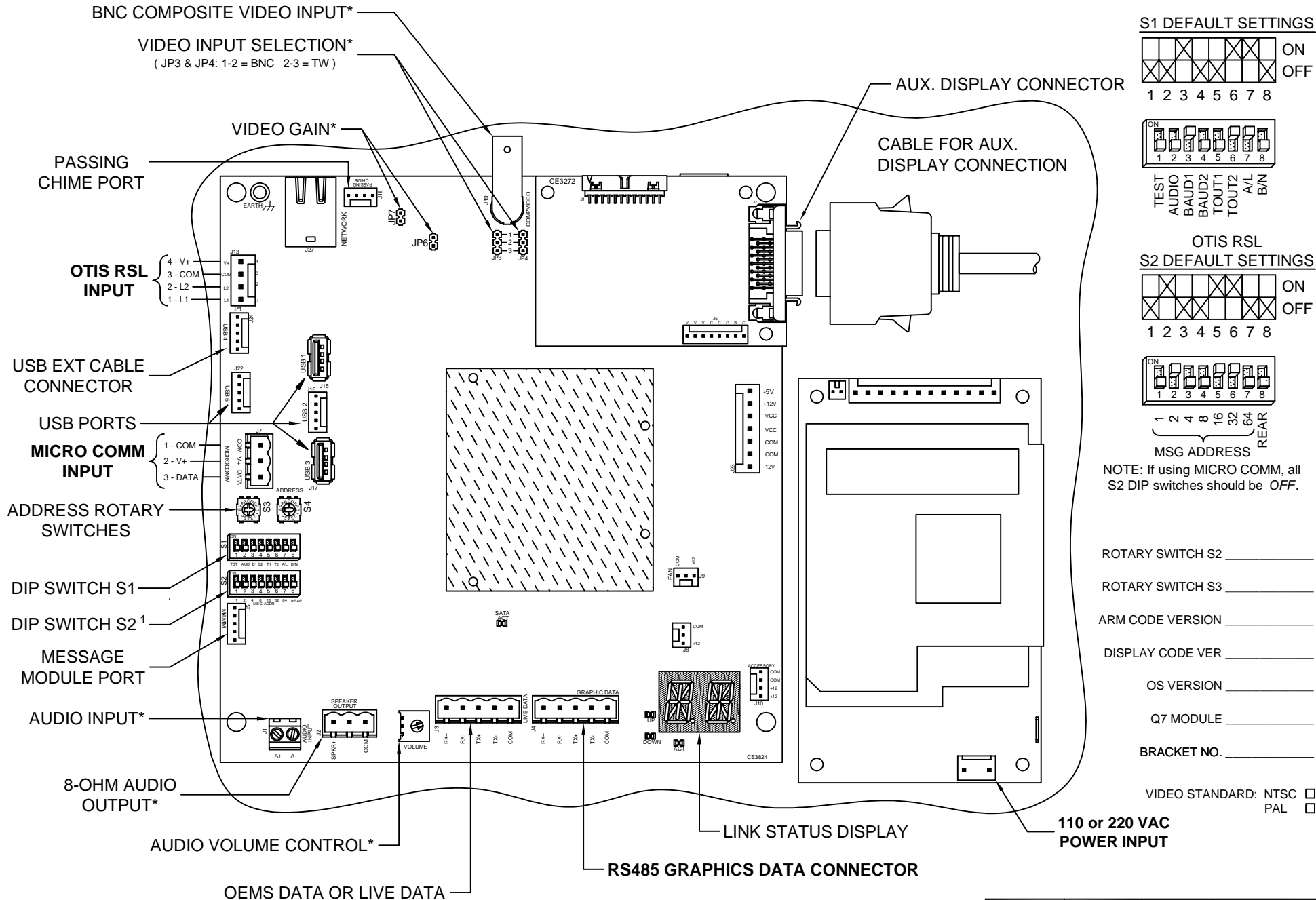


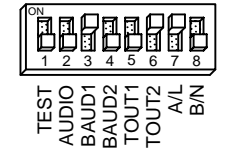
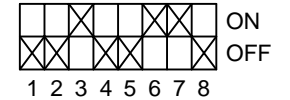
OTIS MAIN TFT

* - ITEMS INSTALLED ON VIDEO VERSION ONLY

JOB# _____

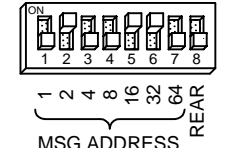
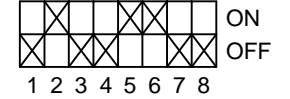


S1 DEFAULT SETTINGS



OTIS RSL

S2 DEFAULT SETTINGS



NOTE: If using MICRO COMM, all S2 DIP switches should be OFF.

ROTARY SWITCH S2 _____

ROTARY SWITCH S3 _____

ARM CODE VERSION _____

DISPLAY CODE VER _____

OS VERSION _____

Q7 MODULE _____

BRACKET NO. _____

VIDEO STANDARD: NTSC
PAL

¹ S2 FUNCTIONS CHANGE BASED ON RSL OR MICRO COMM USE.

| | | | |
|--------------------------------------|-------------------------|---------------------|--------------------------------------------------------------------------------------------|
| DATE DRAWN: 02/24/16 | DRAWN BY: DAC | REQUESTED BY: TE | C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43306 (419) 636-6705 |
| BOARD NUMBER: 3824, 3272 | LAST DATE REVISED: - | APPROVED BY: | |
| PRODUCT OTIS ELITE PI MAIN - LVDS | | | |
| DWG. NO. 104TFTBACK_3824_RSL | | | |

S1 DIP SWITCH SETTINGS

DIP Switch 1 - Test Mode

Off = Normal Run Mode
 On = The display will cycle up and down through all programmed floors (Front Side Only).

DIP Switch 2 - Audio Output

Off = Audio Software Controlled
 On = Audio Enabled

DIP Switch 4, 3 - RS485 Configuration Link Baud Rate (Must match Transfer Program)

| DS4 | DS3 | BAUD RATE |
|-----|-----|-----------------|
| OFF | OFF | 9600 |
| OFF | ON | 19200 (Default) |
| ON | OFF | 38400 |
| ON | ON | 57600 |

DIP Switch 6, 5 - Watchdog Period (Length of time the PIC waits for a response from Elite Display before resetting the display)

| DS6 | DS5 | Wait Period |
|-----|-----|-------------------------|
| OFF | OFF | One Minute |
| OFF | ON | Two Minutes |
| ON | OFF | Three Minutes (Default) |
| ON | ON | Never Reset Display |

DIP Switch 7 - Converter Board Display Mode (does not affect TFT screen)

Off = Scan Slot Data Displayed
 On = ASCII Data Displayed

NOTE: Left Cube Dot = Priority Message Sent
 Right Cube Dot = Door Strobe Active

DIP Switch 8 - Single/Multi-Car

Off = Single Car - Standard MICRO COMM Links
 On = Multi-Car - Special 8-to-1 MICRO COMM Links Only!

ROTARY SWITCH SETTINGS

Rotary Switch S3 - Used for USB transfers. Default setting is 0.

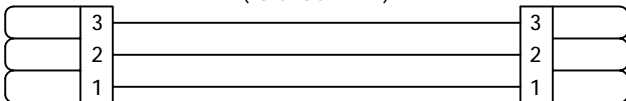
Rotary Switch S4 - Unit Address

This switch sets the address of the Elite PI unit. The default is address 1, which is switch setting 0.

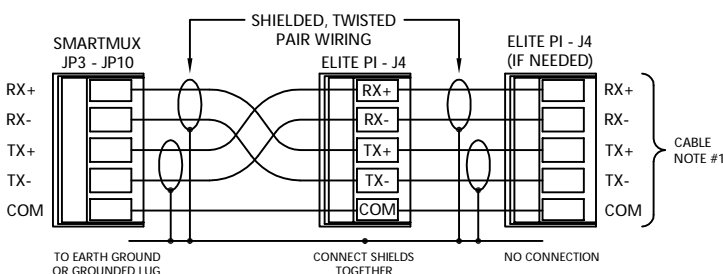
NOTE: This address must match the Transfer program setting.

| S4 | Unit Address | S4 | Unit Address | S4 | Unit Address | S4 | Unit Address |
|----|--------------|----|--------------|----|--------------|----|--------------|
| 0 | 1 | 4 | 5 | 8 | 9 | C | 13 |
| 1 | 2 | 5 | 6 | 9 | 10 | D | 14 |
| 2 | 3 | 6 | 7 | A | 11 | E | 15 |
| 3 | 4 | 7 | 8 | B | 12 | F | 16 |

MICRO COMM LINK (18-GAUGE WIRE)



SMARTMUX to ELITE PI and (if needed) to ELITE PI



NOTE: Shields **MUST** be grounded to controller/earth ground lug

S2 DIP SWITCH SETTINGS - when using MICRO COMM input

ARRIVAL ARROWS & DESTINATIONS DS1 - DS7 set the unit's floor number.

| DS7 (64) | DS6 (32) | DS5 (16) | DS4 (8) | DS3 (4) | DS2 (2) | DS1 (1) | FLOOR NUMBER |
|-------------|-------------|-------------|------------|------------|------------|------------|-----------------|
| OFF | OFF | OFF | OFF | OFF | OFF | OFF | CAR UNIT |
| OFF | OFF | OFF | OFF | OFF | OFF | ON | FLOOR 1 |
| OFF | OFF | OFF | OFF | OFF | ON | OFF | FLOOR 2 |
| OFF | OFF | OFF | OFF | OFF | ON | ON | FLOOR 3 |
| : | : | : | : | : | : | : | : |
| : | : | : | : | : | : | : | : |
| ON | ON | ON | ON | ON | OFF | ON | FLOOR 125 |
| ON | ON | ON | ON | ON | ON | OFF | FLOOR 126 |
| ON | ON | ON | ON | ON | ON | ON | NOT USED |

Switch 8 sets the unit as front or rear. DS8 OFF - Front Unit DS8 ON - Rear Unit

VIDEO TEST MODE

Video test mode uses a combination of DIP switch and rotary switch settings. Please write down the initial setting of the S3 and S4 rotary switches before starting this process.

Entering Video Test Mode

Set DIP switch 1 to OFF, then set S3 and S4 to position F. Next, set DIP switch 1 to ON. The Live Video Adjustment menu will appear on the screen with Brightness highlighted.

Choosing Item to Adjust

The highlighted item is the current selection. To choose a different item to adjust, set S3 as shown below:

| S3 | Adjustment | S3 | Adjustment |
|----|------------|----|------------------|
| F | Brightness | B | Video Standard |
| E | Contrast | A | Vertical Stretch |
| D | Color | 9 | Default |
| C | Tint | 8 | Original |

Making Adjustments

Highlight the item to change and turn S4 for the best display quality.

Default and Original Settings

Default resets the display to the factory default settings. Original cancels any changes made and restores the values stored before entering Video Test mode. Highlight the item to use, turn S4 in either direction, and wait five seconds. The display will reset to the default or previous settings.

Exiting Video Test Mode

To save the new video settings and exit Video Test, set DIP switch 1 to OFF. Reset S3 and S4 to the values recorded before starting the process.

Video Gain

JP7 and JP6 control the video gain. Use a shunt to short the pins of the jumpers as shown in the table below (OFF = No Shunt, ON = Shunt):

| JP7 | JP6 | VIDEO GAIN |
|-----|-----|-------------------|
| OFF | OFF | No Gain (Default) |
| OFF | ON | Lowest Gain |
| ON | OFF | |
| ON | ON | Highest Gain |

Adjusting Audio Volume

If you need audio, connect an 8-ohm speaker to J2 on the Elite PI board. Set the volume by adjusting Volume pot R2 (3/4 turn pot). Adjust the pot clockwise to increase the volume.

CABLE NOTES:

- 1) Use shielded, twisted pair wires. We recommend using 24-gauge or larger wires. NOTE: Connect shields to controller/earth ground.
- 2) Use one wire of a twisted pair or a separate wire for common.
- 3) The audio input cable should be a shielded, twisted pair cable.
- 4) BNC composite video cable - 75 ohm RG6 recommended.
- 5) Twisted pair video cable - Unshielded twisted-pair wire recommended Baluns required - C.E.# V23501P02

| | | | |
|----------------------------------------------|--------------------------------|---------------------|--------------------------------------------------------------------------------------|
| DATE DRAWN: 02/24/16 | DRAWN BY: DAC | REQUESTED BY: TE | C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, OH 43306 (419) 636-6705 |
| BOARD NUMBER: 3824 | LAST DATE REVISED: 10/09/17 | APPROVED BY: | |
| PRODUCT CE3824 Otis TFT Setup Information | | | DWG. NO. CE3824RSL_SETUP REV. B |

The serial link must contain the following Otis data at the specified addresses for the display to work properly. Select the RSL Data address by setting S2, DIP switches 1-6 using the binary number for the desired address. The board reads five continuous addresses beginning with the address determined by the DIP switch setting. For example, if the DIP switch is set to address 50 (default), the board reads the bits at addresses 50-54.

DIP switch address - selected by the S2 DIP switch on the unit (Default 50):

| | | | |
|------------------|----------------------|--------|------------------------------------------------------------------------------------------------------|
| Bit 1 - FDO | Front Door Open | >>>>>> | Either of these will activate the play voice strobe, but also control which lantern inputs are read. |
| Bit 2 - RDO | Rear Door Open | >>>>>> | |
| Bit 3 - Not Used | | | |
| Bit 4 - LPT | Landing Passing Tone | | Passing Chime |

DIP switch address +1 (Default 51):

| | | |
|--------------|----------------------|-------------------|
| Bit 3 - CUML | Car Up Motion Lamp | Travel Up Arrow |
| Bit 4 - CDML | Car Down Motion Lamp | Travel Down Arrow |

DIP switch address +2 (Default 52):

| | | <u>Priority</u> |
|-------------------|--------------------------|-----------------|
| Bit 1 - SESL | Fire Hat Jewel in COP | 1 |
| Bit 2 - FSL/RFSL | Fire Service Lamp | 2 |
| Bit 3 - FNDG/RNDG | Front/Rear Nudging | 3 |
| Bit 4 - ISCL | Independent Service Lamp | 4 |

DIP switch address +3 (Default 53):

| | | |
|-------------------|---------------|---|
| Bit 1 - OLS | Overload Lamp | 5 |
| Bit 2 - Available | Message Six | 6 |
| Bit 3 - Available | Message Seven | 7 |
| Bit 4 - Available | Message Eight | 8 |

DIP switch address +4 (Default 54):

Bit 3 and Bit 4 contain Lantern UP and Lantern DOWN data when the arrival arrow address on S3 is set to zero and S2 DIP switches 7 & 8 are set to *OFF*.

To get the arrival data from a different address, use rotary switch S3 and S2 DIP switches 7 & 8. Rotary switch S3 provides the four lowest bits and S2 DIP switches 7 & 8 provide the highest two bits of a 6-bit address. For example, to use address 20, set rotary switch S3 to 4 and set S2 DIP switch 7 (16) to *ON* ($4 + 16 = 20$). To use address 44, set rotary switch S3 to C (12) and set S2 DIP switch 8 (32) to *ON* ($12 + 32 = 44$). The unit reads bits 3 & 4 of the designated address to determine the arrival data.

NOTE: At DIP switch address +1 and +4, bits 1 and 2 are not used. Also, the messages listed at DIP switch address +2 and +3 are the default messages, but any signal can be used to trigger a message at the corresponding bit location.

For destination-based systems, please contact C.E. Electronics Customer Service (419-636-6705) for more information.