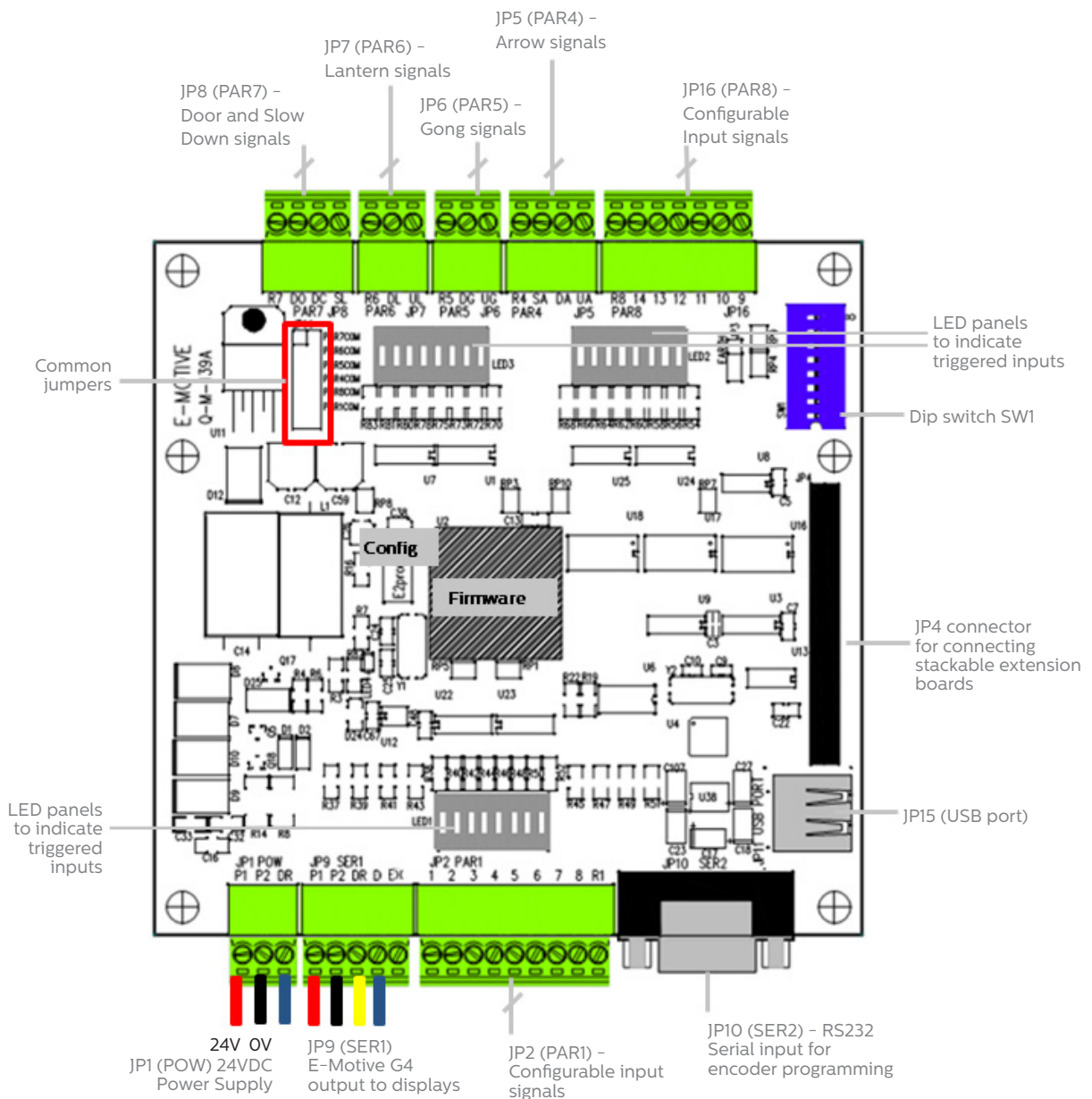# CX-BASIC Encoder

Installation Guide

Ref No. 148-3-EI-0001 (GB) Version 1

Wiring Connections

Below are the wiring connections of the inputs and outputs on the main CX-BASIC board:

JP5 (PAR4) – Arrow signals

JP7 (PAR6) – Lantern signals

JP6 (PAR5) – Gong signals

JP8 (PAR7) – Door and Slow Down signals

JP16 (PAR8) – Configurable Input signals

Common jumpers

LED panels to indicate triggered inputs

Dip switch SW1

JP4 connector for connecting stackable extension boards

LED panels to indicate triggered inputs

JP15 (USB port)

24V 0V
JP1 (POW) 24VDC Power Supply

JP9 (SER1) E-Motive G4 output to displays

JP2 (PAR1) – Configurable input signals

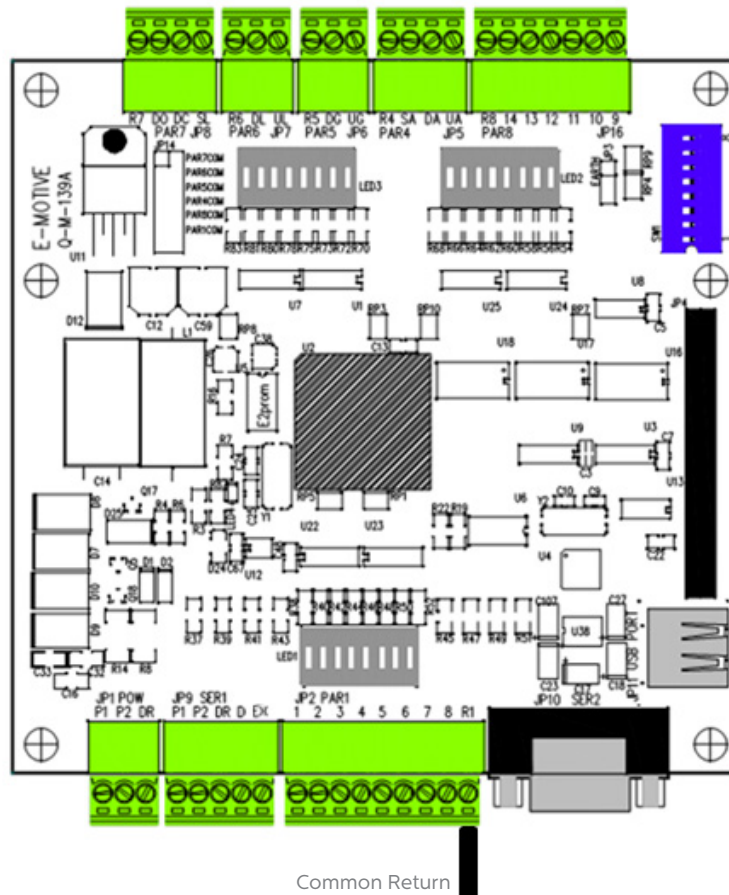JP10 (SER2) – RS232 Serial input for encoder programming

Note:

1. For JP2 and JP16 configurable input signal connectors, please refer to the appropriate wiring diagram (refer to the config EEPROM programming number)

2. Recommended cable requirements (not included with the CX-BASIC) – AWG 18 or CSA 0.75mm^2

Common Return

For the encoder to recognise switching on the inputs, a common reference (as shown below) needs to be wired to the common return of the input signals from the elevator controller:

Common Return

Common Jumpers

The common jumpers detailed in the wiring diagram in this document are used to connect the common for each PAR connector on the board. If the installation only has one type of common used across all connectors i.e. positive switching, you will only need to wire a common to one connector. The jumpers will link this common to the other connectors. When you have two different types of common i.e. positive switching and negative switching going into the same encoder board, you will need to remove all jumpers for connectors using the alternative switching i.e. negative switching. The alternate common return will need to be wired separately into this connector.

Caution ⚠️

If you wire a positive common and negative common into the same board and do not remove the appropriate jumper, this will irreversibly damage the board

Triggering Voice Messages (via E-Motive CX-MP3 Voice Annunciator)

Travelling direction

The travel direction announcements are triggered from the hall lantern (UL and DL) inputs. If the arrow inputs are to be used to trigger these messages, connect link wires as follows:
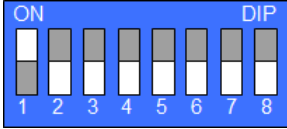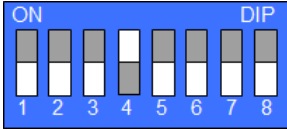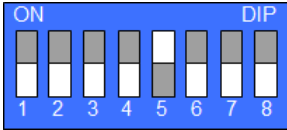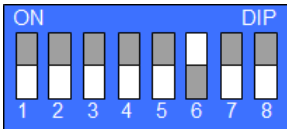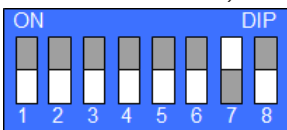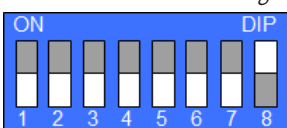
+ Up lantern (UL) to Up arrow (UA)

+ Down lantern (DL) to Down arrow (DA)

Floor numbers

The floor number announcement requires a Slow Down (SL) signal to be provided to trigger the voice message for each floor. The Doors Open (DO) signal can be used, with a link wire connected between these two signal inputs

Dip Switch SW1 Settings

PLEASE NOTE: SW1 dip switches only need to be used if the board has not been pre-configured using the E-Motive ISC encoder programming software.

SW1.	Function

- Dipswitch SW1, switches 1 to 4 are used to set the encoder board address.
- Default encoder board address is 81h, maximum 8fh.
- Value of address = 80h + [hex value of SW1 (1-4)].
- E.g. Address = 80h + 1h= 81h.

- Set SW1-4 to ON to set the floor format[1].
- Set SW1-1 to SW1-3 as shown below for different floor formats[1].
- Set SW1-4 to OFF to latch in the new floor format setting[1].

Floor Format	SW1-3	SW1-2	SW1-1
One per Floor	OFF	OFF	OFF
Binary 1 (Begins with 1)	OFF	ON	ON
Binary 0 (begins with 0)	OFF	ON	OFF
Gray 1 (begins with 1)	ON	OFF	ON
Gray 0 (begins with 0)	ON	OFF	OFF

- Switch 5 is used to activate the CX-MP3 function.
- This is set to "ON" when used with the E-Motive CX-MP3 board
-

- Switch 6 is used to set speech duration for floor annunciation[2].
- SW1-6: ON – duration = 8 seconds
- SW1-6: OFF – duration = 2 seconds

- Switch 7 is used to set speech duration for floor annunciation[2].
- SW1-7: ON – duration = 8 seconds
- SW1-7: OFF – duration = 4 seconds

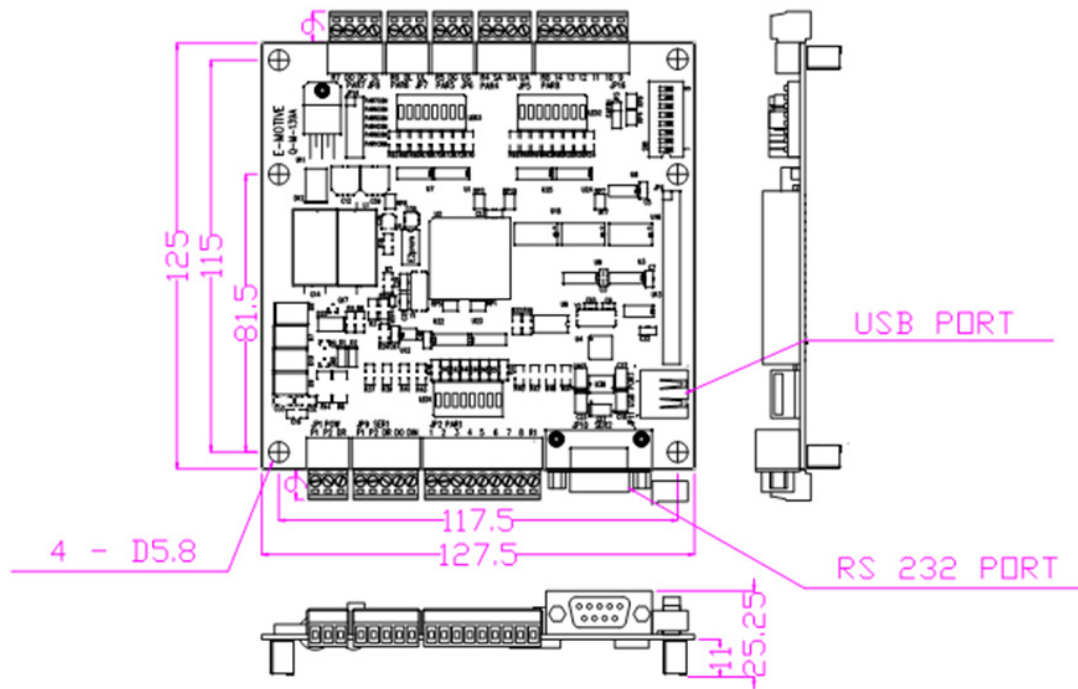

- Switch 8: Reserved

 White colour switch on top at "ON" position

Note:

1. To be done when power is supplied to the unit

2. The setting has to tally with the speech duration of the ISD chip when the user records the voice using ISD software. Only valid when used with CX-SPEECH

Mechanical Mounting

4 - D5.8

USB PORT

RS 232 PORT

AVIRE

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