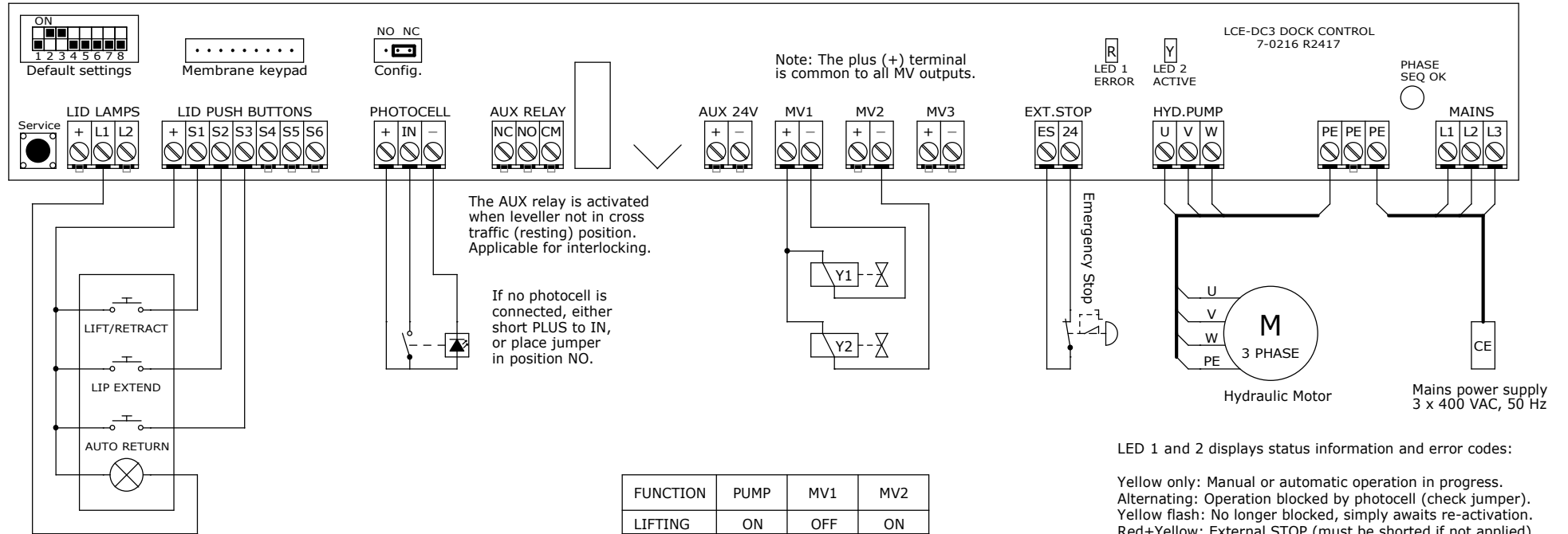


Connection Diagram for 3-button Telescopic Dock Leveller Control



FUNCTION	PUMP	MV1	MV2
LIFTING	ON	OFF	ON
EXTEND	ON	OFF	OFF
LOWER	OFF	ON	OFF
STOPPED	OFF	OFF	OFF

LED 1 and 2 displays status information and error codes:

Yellow only: Manual or automatic operation in progress.
 Alternating: Operation blocked by photocell (check jumper).
 Yellow flash: No longer blocked, simply awaits re-activation.
 Red+Yellow: External STOP (must be shorted if not applied).

Errors (to be reset by power cycling the unit) are displayed continuously according to the below (ERR + ACT) encoding:

- 1 + n : Button n is stuck (upon 3 seconds of power-on).
- 2 + 1 : No power consumption (disconnected motor).
- 2 + 2 : Unbalanced power consumption (phase failure).
- 2 + 3 : High motor power (overload protection tripped).
- 2 + 4 : Control unit overheated (100 degrees Celsius).
- 3 + 1 : Contactor does not switch on when energised.
- 3 + 2 : Contactor does not switch off when de-energised.
- 3 + 3 : Contactor operation timeout (more than 45 sec).
- 4 + 1 : MV1 valve is on even though output switched off.
- 4 + 2 : MV2 valve is on even though output switched off.
- 4 + 3 : MV1 valve is off even though output switched on.
- 4 + 4 : MV2 valve is off even though output switched on.
- 5 + 1 : Power-on EPROM read/write failure (HW fault).
- 5 + 2 : Asymmetrically wrapped current transformers.
- 5 + 3 : Current transformer TR3 ground out of range.
- 5 + 4 : Current transformer TR4 ground out of range.
- 6 + n : Software failure (real-time operating system).

The service button (upper left corner) has two functions:
 - If replacing the hydraulic pump, push and hold the button while turning on the control unit to reset the stored motor protection settings. Confirmed by alternated LED flashing.
 - Push the button (repeatedly) at any other time to display the internal operations counter. The red LED counts the digit (1 for 10s, 2 for 100s, and up to 5 for 100,000s) and the yellow LED counts the value of the selected digit.

Auto Return Lift and Retract Time

