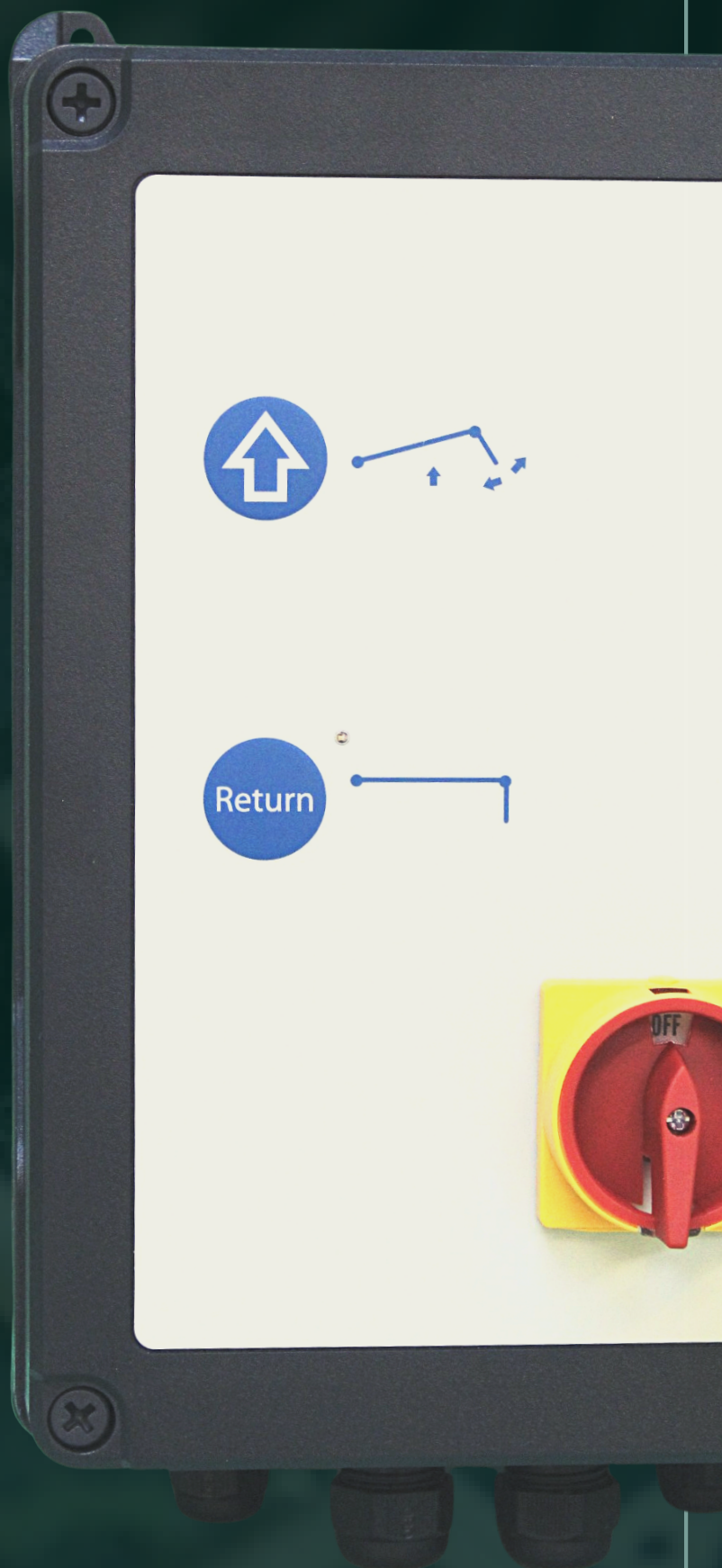


CONTROLLER DOCK LEVELLER

R010-1822SB

- TECHNICAL DETAILS
- FEATURES
- CIRCUIT BOARD
- CONNECTIONS
- DOCK LEVELLER OPERATION
AND CONFORMITY DECLARATION



TECHNICAL DETAILS

- Power supply

3x 400 VAC, PE
3x 230 VAC, PE

- Hydraulic motor

max 1.50 kW (3 x 400 VAC)

- Connection terminals

max 1,5mm²

- Ambient temperature

from -20° C to +60° C

- Protection class

IP65

- Dimensions

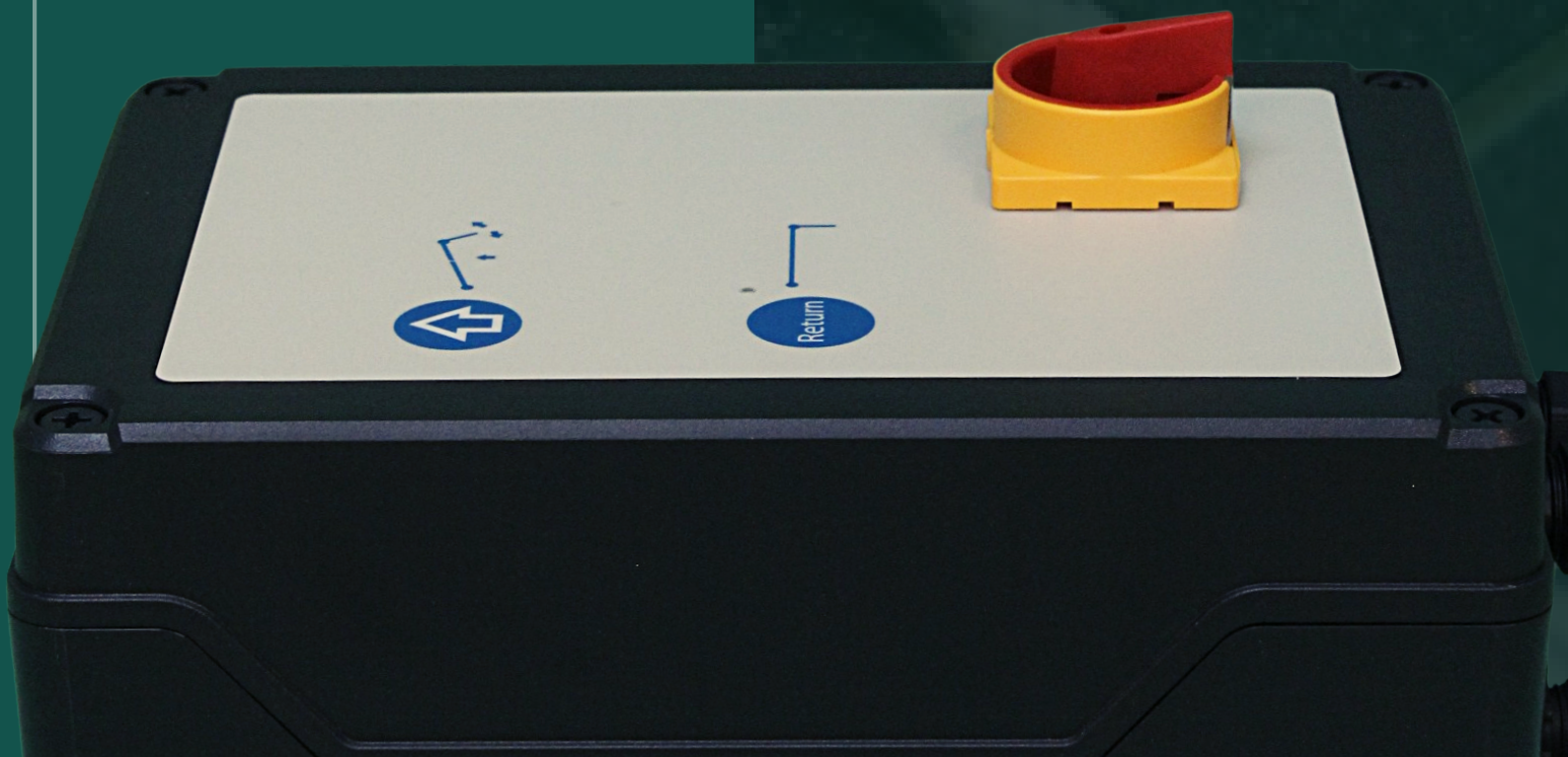
192 x 283 x 102 mm

- Transformer

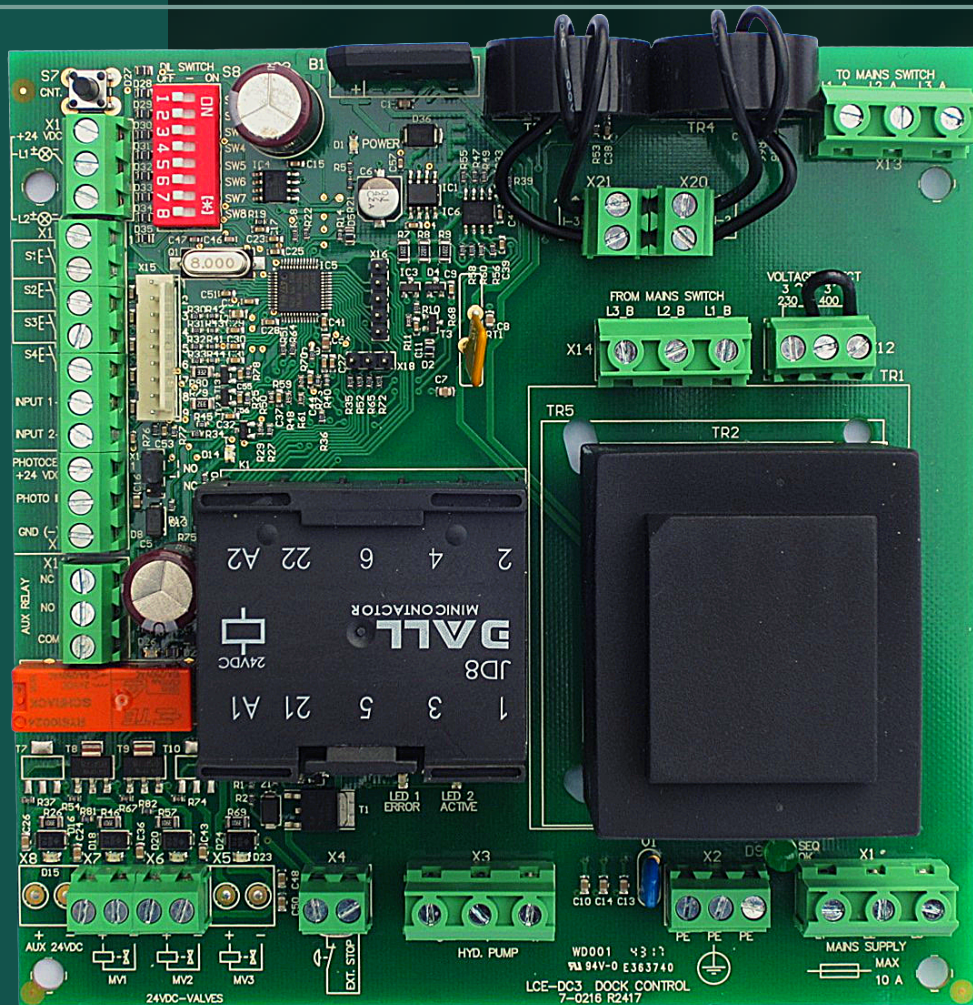
23 VA (protected with multifuse)
30 VA (Option)
47 VA (Option)

- Output for valve

24 VDC +/- 15% max 1A (23VA)



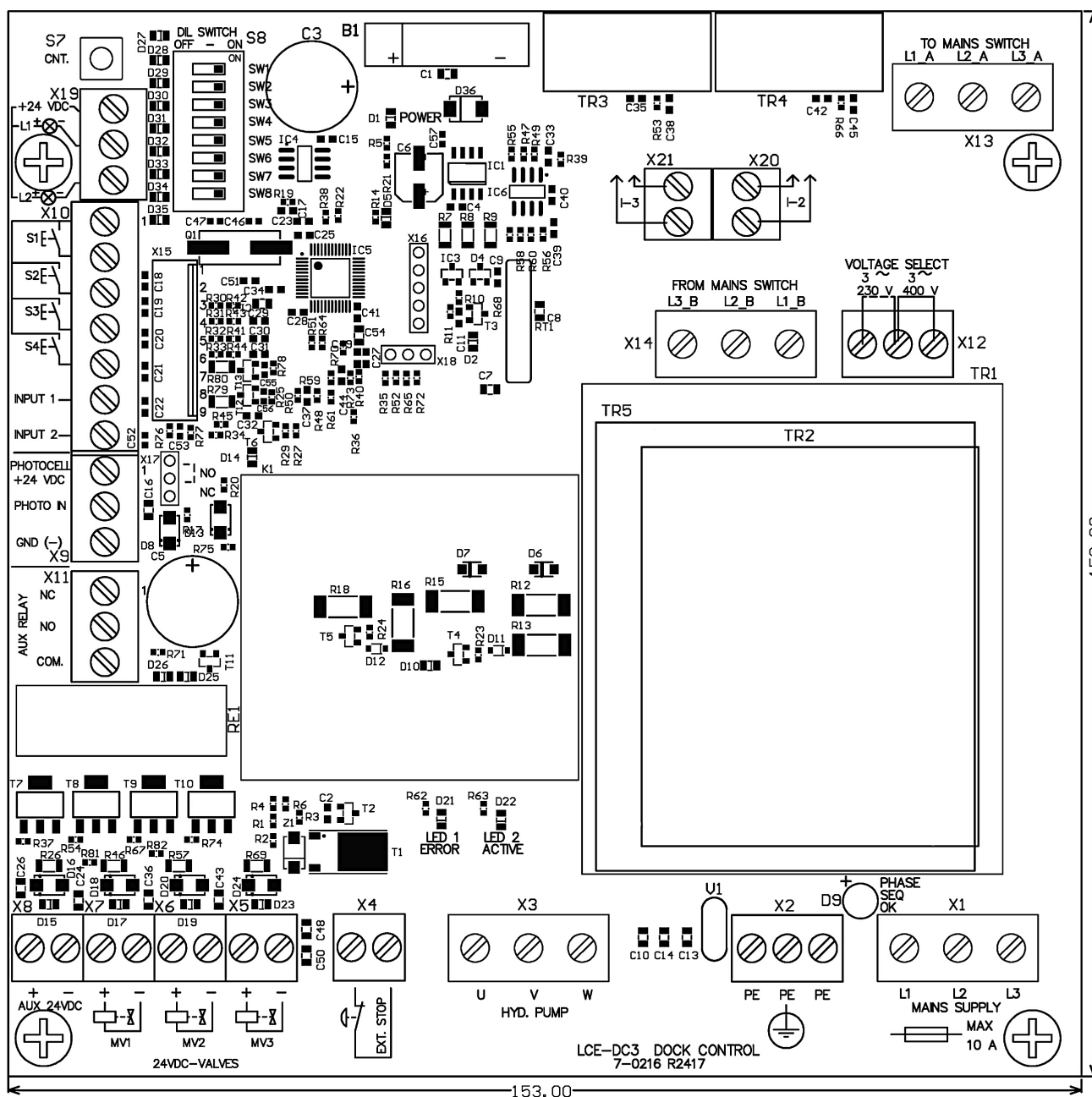
LCE-DC3 PCB FOR DOCKLEVELLER FEATURES



- Electronic motor protection (current monitoring).
- Self learning motor size – from 0.75 to 1.5 kW.
- Control for telescopic lip and swing lip.
- Automatic detection of swing lip top position.
- On-board motor contactor up to 1.5 kW.
- Selectable NO and NC of Photo or micro switch.
- Solid state MOSFET transistor for driving valves.
- OPEN and CLOSE limits input for door interface.
- Door interface outputs for OPEN, CLOSE and STOP.
- 3 valves outputs.
- Green LED for Power.
- Yellow LED on 24VDC output.
- Yellow LED on valves outputs.
- Yellow LED on motor contactor.
- Red LED for indicating error codes.
- Green LED for correct phase sequence.
- 23VA, 30VA or 47VA transformer.
- Transformer protected by multifuse.
- Mains voltage select, 230-400 VAC.
- 8-pole DIL SW functions setup.
- 6 Pushbutton inputs.
- 2 LED lid lamps output.
- AUX relay output. (Optional)
- AUX 24VDC outputs.
- 230 VAC Dock Light output.
- 2 x 230VAC outputs for green and red traffic lights.
- Connector for optional membrane keypad.
- Cycle counter readout on 2 LEDs.
- Switch input for e.g. key switch.
- OEM design.
- Patent pending.

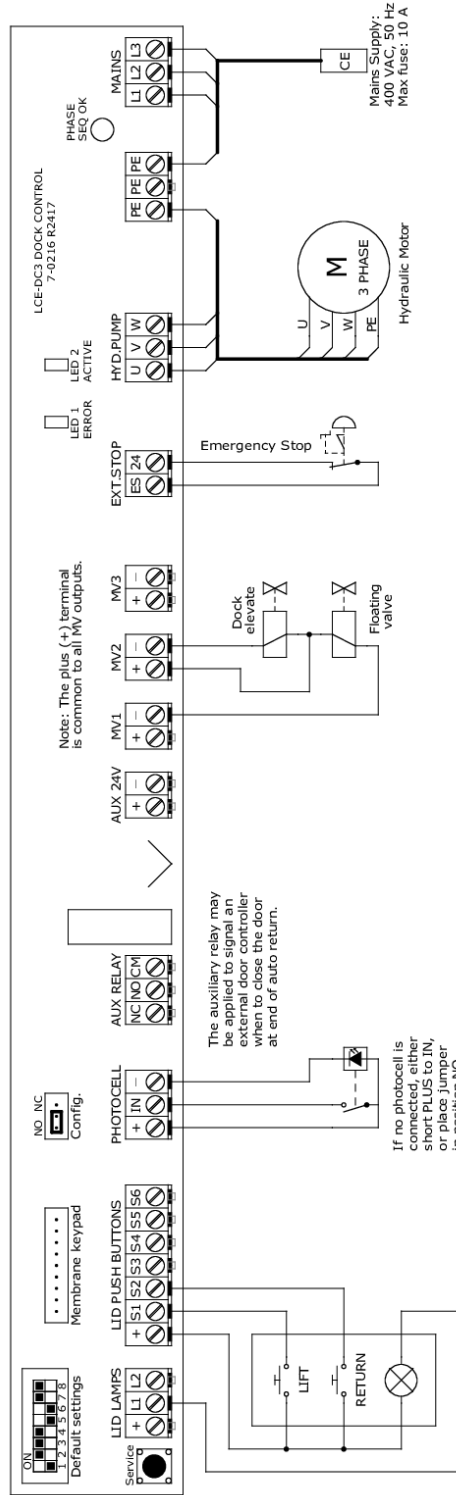
LCE-DC3 PCB CIRCUIT BOARD

7-0216-R2417



LCE-DC3 PCB CONNECTIONS

Connection Diagram for 2-valve Swinglip Dock Leveller Controller



Error Codes
The dock leveller control unit features electronic measuring and supervision of the power consumption of the hydraulic pump motor and other components. In case of error, the red ERROR LED on the PCB is flashing one of the following error codes:

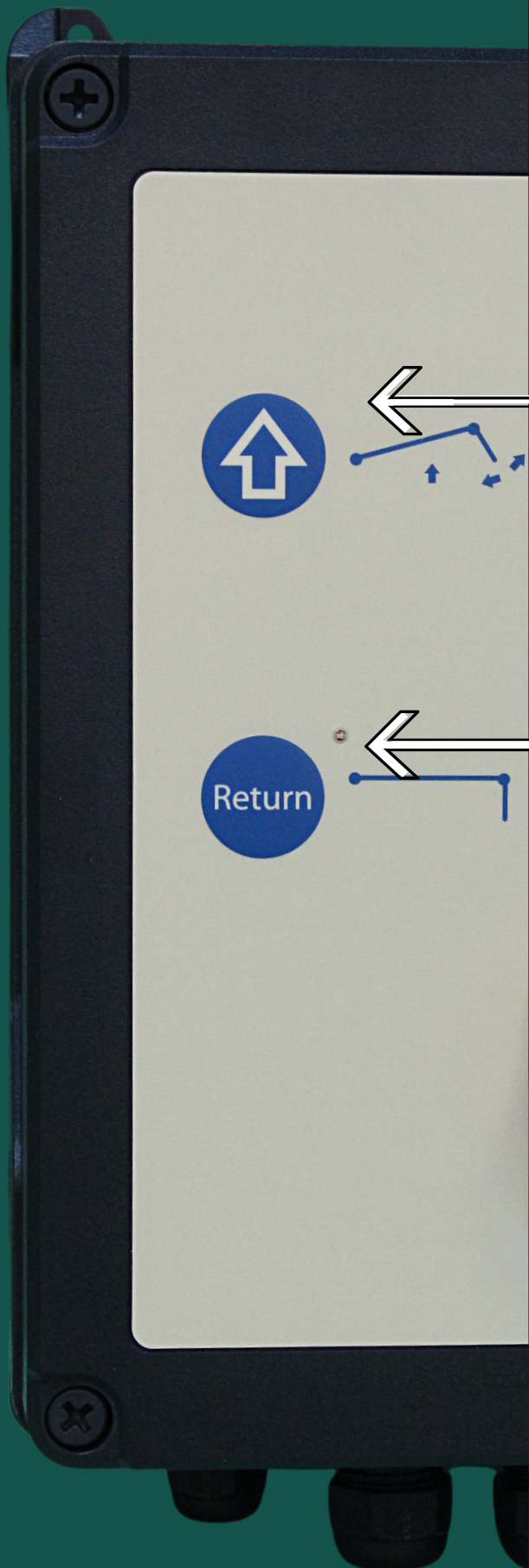
- 1: Motor power overload (above normal level)
- 2: Disconnected phase (no load on one phase)
- 3: Contactor welding (unable to break power)
- 4: Operation timeout (more than 45 seconds)
- 5: System failure (hardware or software)

To reset an error, turn the mains power of the control unit off and after a while back on. In case of a power overload (error code 1) the stored power level may be reset by pressing the service button while turning on the mains power. If the error persists, a trained technician must be called to solve the problem.

When leveller is not operation, the service button may be used for reading out the internal operations counter. When pressing the button one or more times, the red LED 1 is flashing the actual counter digit position (1 for 10, 2 for 100, 3 for 1000, 4 for 10 000 or 5 for 100 000) and the yellow LED2 is flashing the actual digit value.

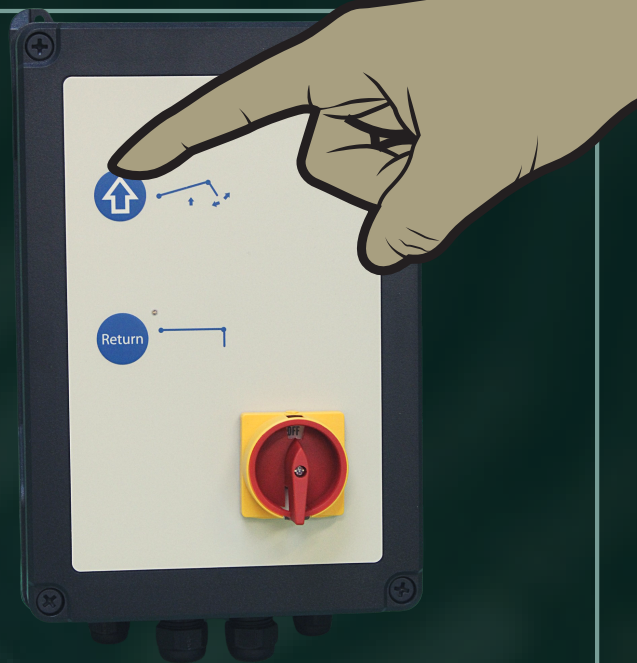
Motor Protection	Lift to Extend Time	Operation Mode	Auto Return Lift and Retract Time
Therm. ON 1 2 3 4 5 6 7 8 Set electronic (faster) or thermal (less sensitive) motor protection. Apply electronic as standard.	5 sec. ON 1 2 3 4 5 6 7 8 Sets for how long the leveller must lift during the manual operation before the lip starts to extend.	Timing ON 1 2 3 4 5 6 7 8 In topstop mode, the leveller stops lifting if top position before lift-time has passed. In timing mode, this feature is disabled.	3 sec. ON 1 2 3 4 5 6 7 8 Sets for how long the leveller must lift during the automatic return to ensure it to be fully returned. Must be set to accommodate worst case scenario.
Electro. ON 1 2 3 4 5 6 7 8 Switch 2 must be ON for 2-valve operation. For 1-valve operation, check the other side.	6 sec. ON 1 2 3 4 5 6 7 8	Topstop ON 1 2 3 4 5 6 7 8	7 sec. ON 1 2 3 4 5 6 7 8
2-valve ON 1 2 3 4 5 6 7 8	7 sec. ON 1 2 3 4 5 6 7 8	Topstop ON 1 2 3 4 5 6 7 8	8 sec. ON 1 2 3 4 5 6 7 8
	8 sec. ON 1 2 3 4 5 6 7 8	Topstop ON 1 2 3 4 5 6 7 8	10 sec. ON 1 2 3 4 5 6 7 8
	8 sec. ON 1 2 3 4 5 6 7 8	Topstop ON 1 2 3 4 5 6 7 8	12 sec. ON 1 2 3 4 5 6 7 8

R010-1822SB OPERATIONS



● THE RAMP WILL GO UP, SVING THE LIP OUT AND FALL DOWN TO THE PLATFORM

● THE SWING LIP WILL GO UP, SVING THE LIP IN AND FALL DOWN TO START POSITION



COMFORMITY DECLARATION

Conformity declaration

Declaration of incorporation
in the terms of Machinery Directive
2006/42/EC
For partly completed machinery, Appendix II
Part B

DALMATIC

Dalmatic TNV A/S
Lægårdsvej 9
8520 Lystrup
Denmark

Declaration of conformance
in terms of EMC Directive 2014/30/EU

We, the TNV Electronic A/S hereby declare that the following products are conform with the
above EC Guideline and are only intended for installation in door equipment.

DOCK Controller

Standard applied

EN 1398	Dock levellers – Safety requirements
EN61000-6-2	Electromagnetic compatibility (EMC) Generic standard – Immunity standard for industrial environments
EN61000-6-3	Electromagnetic compatibility (EMC) Generic standard – Emission standard for residential, commercial and light industrial environments

We undertake to transmit in response to a reasoned request by the appropriate regulatory
authorities the special documents on partly completed machinery.

Authorized representative for the compilation of the relevant technical documents

(internal EU address)
Hans Hilmar Dall
Documentation representative

Incomplete machines within the meaning of the EC Directive 2006/42/EC shall only be intended
to be integrated into other machines (or into other incomplete machines/systems) or to be
assembled with them to form a complete machine within the sense of the Directive. Therefore,
this product cannot be commissioned before it is determined that the entire machine/system to
which it was integrated shall comply with the provisions of the Machinery Directive indicated
above.

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Hans Hilmar Dall, Owner and director

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FOCUS ON THE CUSTOMERS INDIVIDUAL NEEDS AND WISHES
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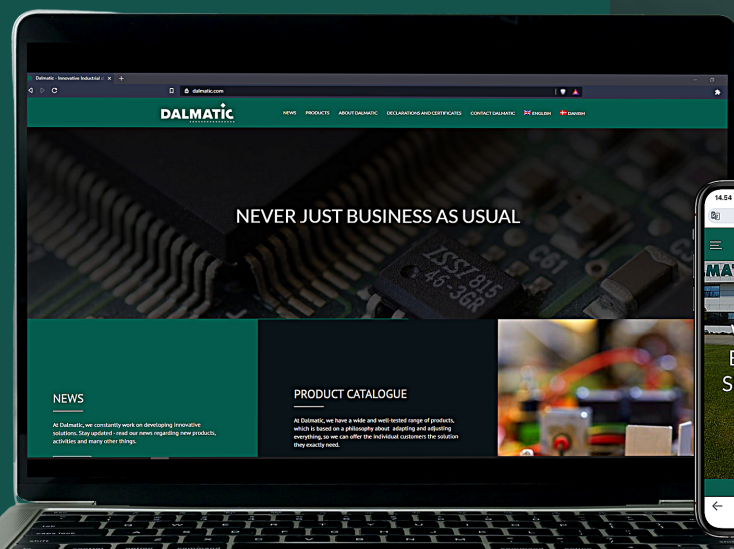
Call or write us. We are ready to help if you have questions or need help with your order.



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