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CONTROLLER DOCK LEVELLER

R010-1834TB

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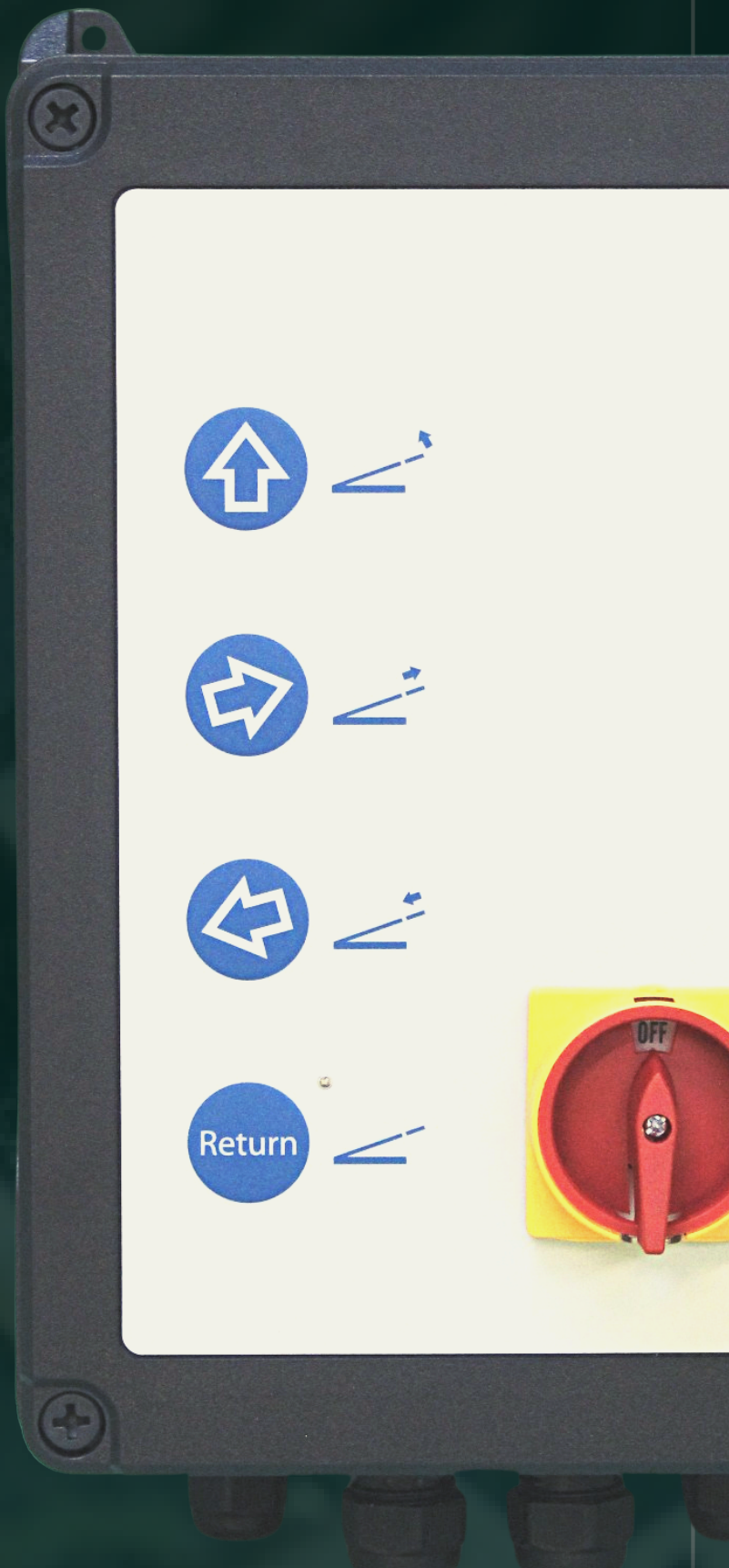
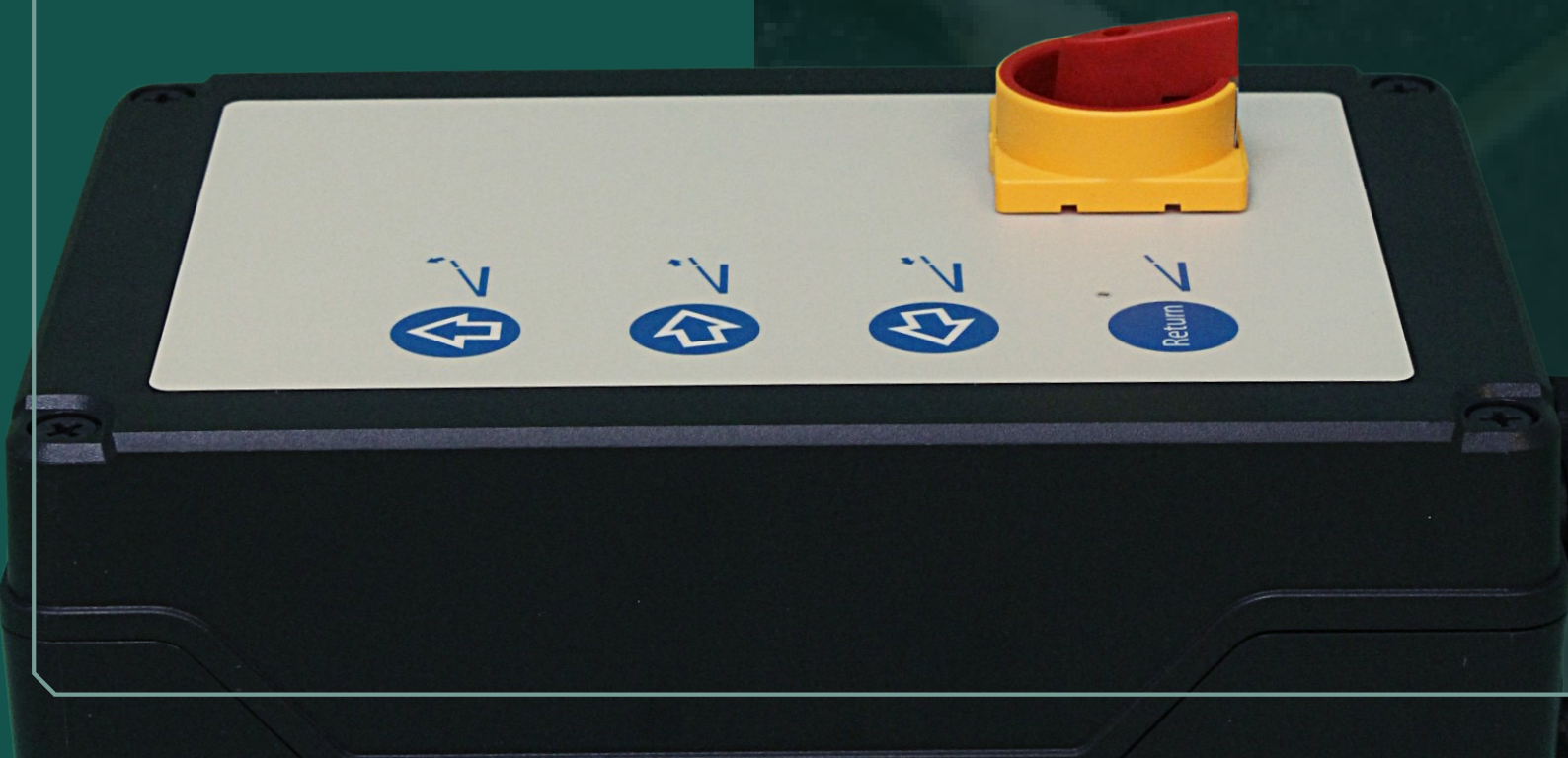
- DOCK LEVELLER OPERATION

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)



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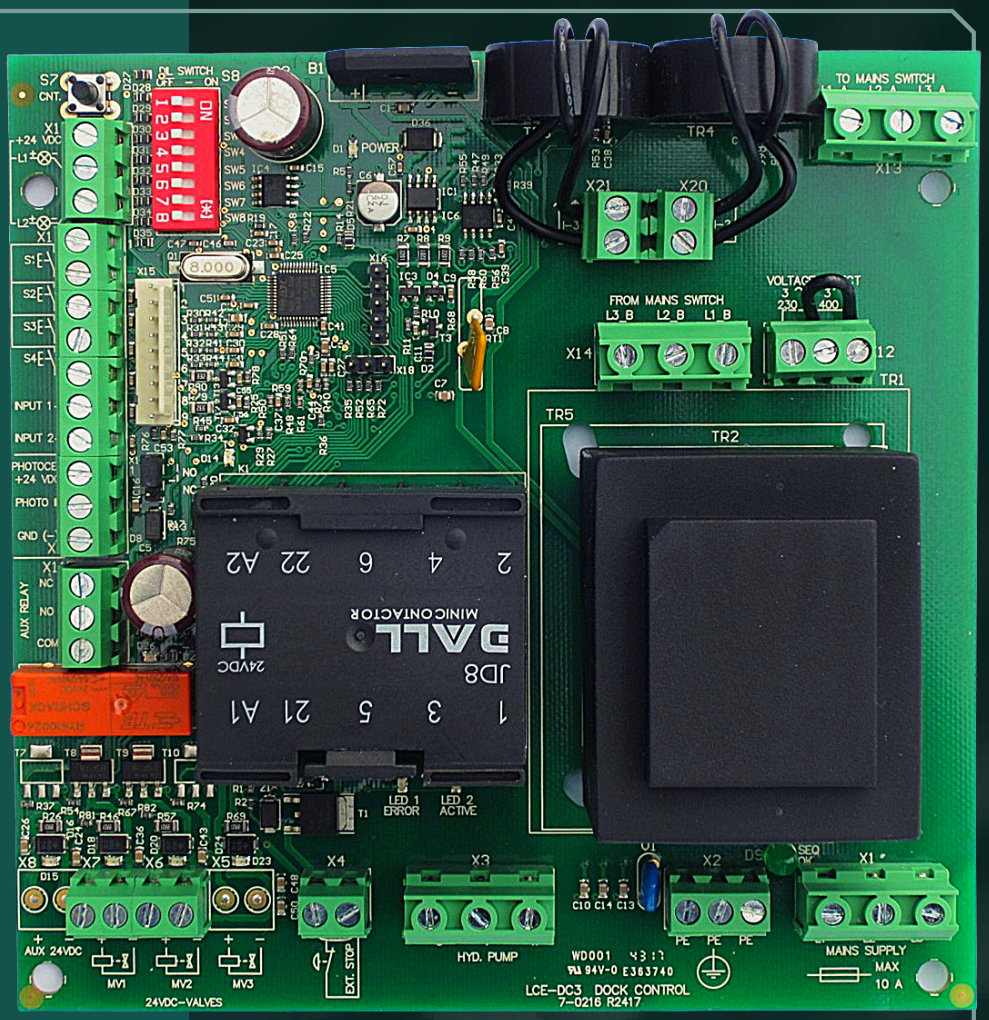
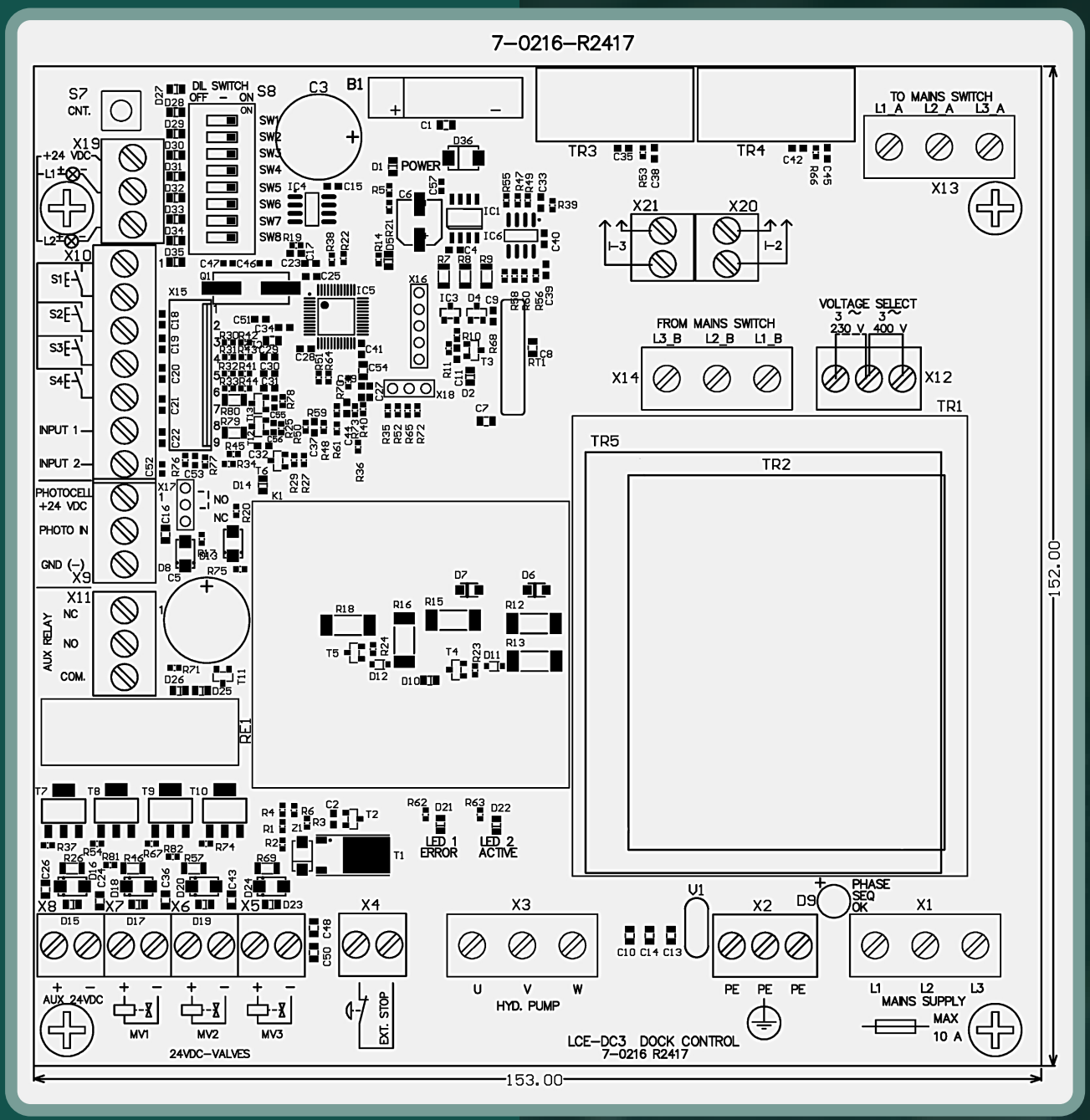
CONTROLLER LCE-DC3 PCB FOR DOCK LEVELLER



FEATURES:

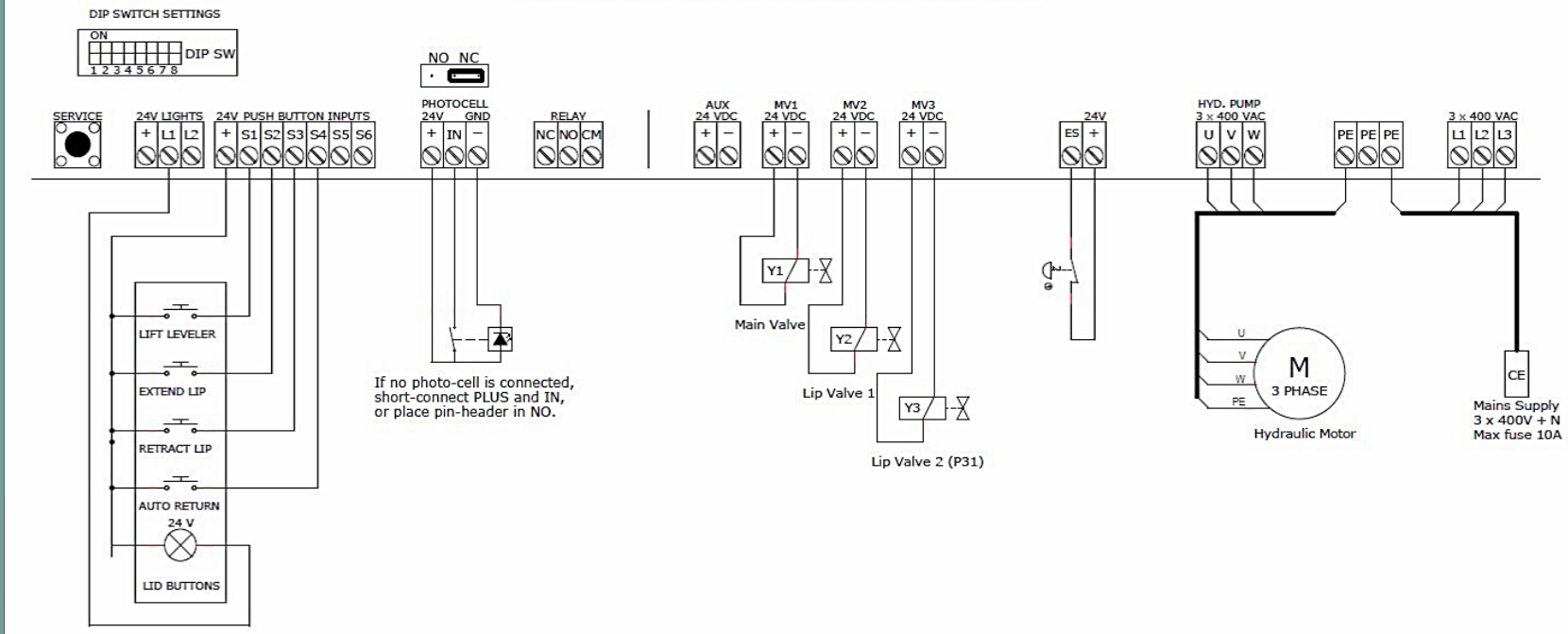
- Electronic motor protection (current monitoring).
- Self learning motor size - from 0.75 to 1.5 kW.
- Control for telescopic lip and swing lip.
- Automatic detection of swing lip top position.
- On-board motor contactor up to 1.5 kW.
- Selectable NO and NC of Photo or micro switch.
- Solid state MOSFET 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

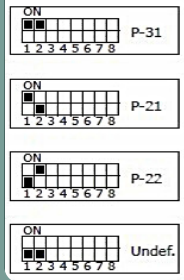


LCE-DC3 PCB CONNECTIONS

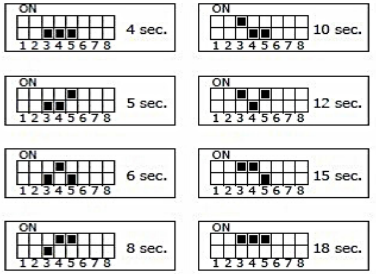
TNV-electronic 4-button Telescopic Dock Leveller Controller



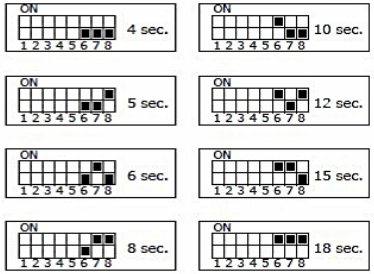
Hydraulic Station



Auto Return Lift Timing



Auto Return Retract Timing



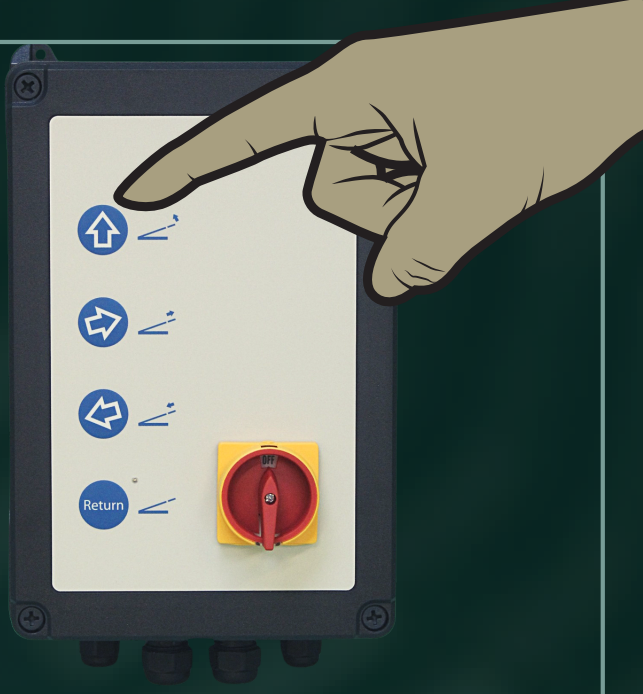
Error Codes
The dock leveller control unit features electronic measuring and suppervision of the power consumption of the hydraulic pump moter and other components. In case of error, the red ERROR LED on the PCB is flashing one of the following error codes:

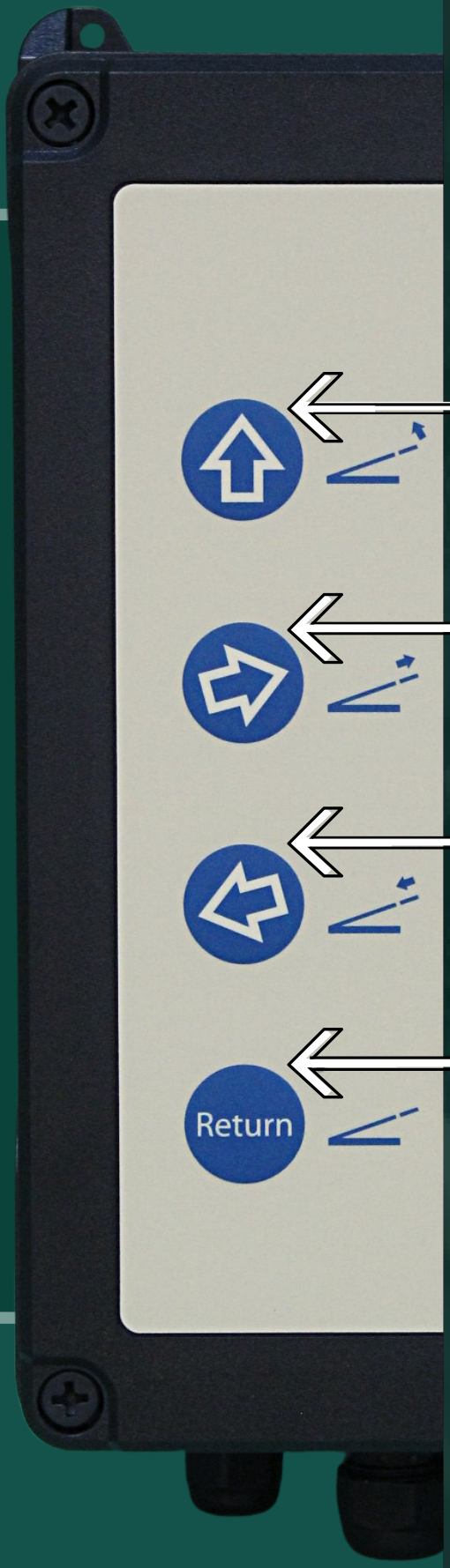
1: Motor power overload (above normal level)
2: Disconnected phase (no load on one phase)
3: Contactor welding (unable to break power)
4: Operation timeout (more than 60 seconds)
5: System failure (hardware or software)

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 persist a trained technician must be called to solve the problem.

When not in operation, the service button may be used for reading out the internal operations cycle counter. When button is pressed one or more times, the red PCB 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 LED 2 is flashing the actual digit value.

R010-1834TB
OPERATIONS





THE RAMP WILL GO UP

THE TELESCOPIC LIP WILL SLIDE FORWARD

THE TELESCOPIC LIP WILL SLIDE BACKWARD

THE RAMP WILL SLIDE BACK TO POSITION AND FALL DOWN AUTOMATIC

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COMFORMITY DECLARATION

Conformity declaration

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

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

Dalmatic TNV A/S
Lægårdsvej 9
8520 Lystrup
Denmark

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 R010-1834TP

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.

Hans Hilmar Dall, Owner and director

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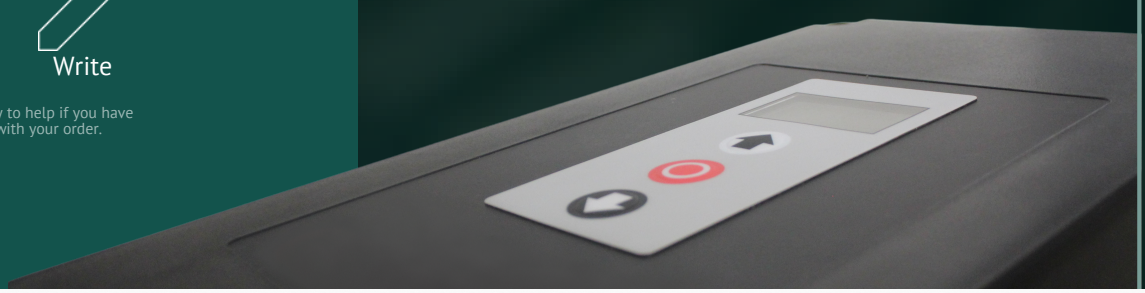

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