

4500 COMMANDER UTILITY DUAL POWER HELIDECK LIGHTS CONTROL SYSTEM SAFE AREA

Subject to change without prior notice TPS4503 REV. C 30.06.2017



The TEF 4500 Commander Utility Helideck Lights Control System (HLCS) is a complete control system for all helideck lights. Based upon the Commander Utility technology, this control system allows the control panel to be installed in the bridge or radio equipment room, while the enclosure with all other necessary components may be installed further away. Between the cabinet and control panel a simple cable ensures that the industry-proven RS-485 network provides a reliable two-way communication.

The control panel includes 8 buttons that control the perimeter lights, floodlights and windsock lights. In addition the panel includes a main power button for the entire system, an alarm acknowledge button and a button to dim the backlight. Three spare buttons are available, which may be used if additional components are installed in the control enclosure. Power indicators for main an emergency supply. Customer- specific text on buttons is optional.

Among the unique features of the system is the capability of connecting several control panels to the network, enabling full control and monitoring from several locations. Optionally a gateway may be installed to provide two-way communications to an external control system (NMEA-0183 compliant/proprietary). Three additional contactors and circuit breakers are available to make full use of the 8 control buttons at the control panel.

APPLICATIONS

- Control system for decklights, floodlights and windsock lights

FEATURES

- Ready for installation; comes complete with control panel and enclosure with 8 outgoing circuits, B10A.
- Control panel may be mounted far away from the enclosure.
- Up to 7 control panels may be connected to the network, enabling control capabilities from each location.
- Common alarm on circuit breakers
- Naut-OSV alarm signalling towards bridge alarm handling system (BAMS etc.)
- Auto fallover to emergency power source accordingly to DNV Pt. 6 Ch. 1 Sec. 2 F503

TECHNICAL DATA

| | |
|---------------------------------|----------------------|
| Dimensions on panel: | 254x225x60 (WxHxD) |
| Dimensions on enclosure: | 600x760x210 (WxHxD) |
| Weight on panel: | 1,5 kg |
| Weight on enclosure: | 48 kg |
| Required incoming power: | 220-240 VAC, 50/60Hz |
| IP rating panel: | IP22 |
| IP rating enclosure: | IP66 |

TECHNICAL DESCRIPTION

The HLCS features one alarm input, and the alarm signal handling towards the bridge follows the Naut-OSV standards. Once an alarm is registered in the HLCS (e.g. a tripped circuit breaker), the audible buzzer in the control panel will activate and a red led will flash. At the same time the Bridge Alarm Relay activates, providing a volt-free alarm signal that may be connected to the bridge alarm system. The alarm signal may be silenced in two ways; either by pressing the acknowledge button at the control panel or by providing a 24VDC signal to the Bridge Alarm Acknowledge input at the control electronics inside the enclosure. After the acknowledge signal is provided, a second relay, the Bridge Alarm Reset relay, is activated for a period of one second. This relay may be used to silence the alarm in the bridge alarm system in case the alarm was acknowledged at the control panel. The Bridge Alarm Relay will stay activated until the reason for the alarm is removed.

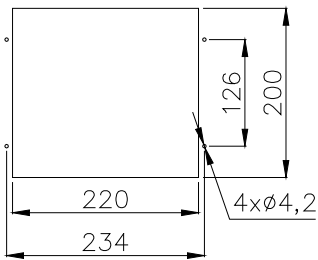
TEF 4500 COMMANDER UTILITY, DUAL POWER HELIDECK LIGHTS CONTROL SYSTEM

DESCRIPTION

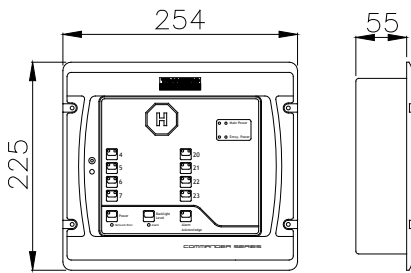
| | Part No. |
|--|-----------------|
| TEF 4500 Commander Utility, Dual Power, Helideck Lights Control System | 4500303 |
| Additional Control Panel | 4500704 |
| Gateway module | 4500800 |
| Local Ex Helideck Lights Control Panel | 4500901 |

DIMENSIONS

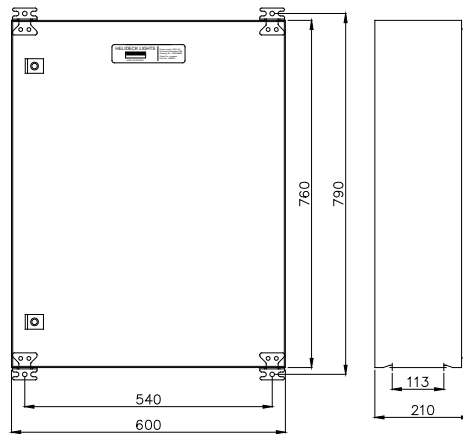
Panel cut-out dimensions



Panel outer dimensions

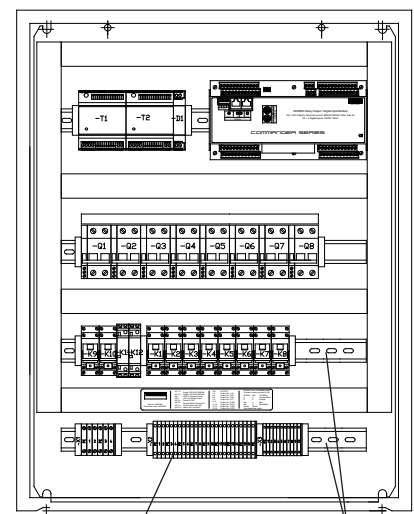


Control cabinet dimensions



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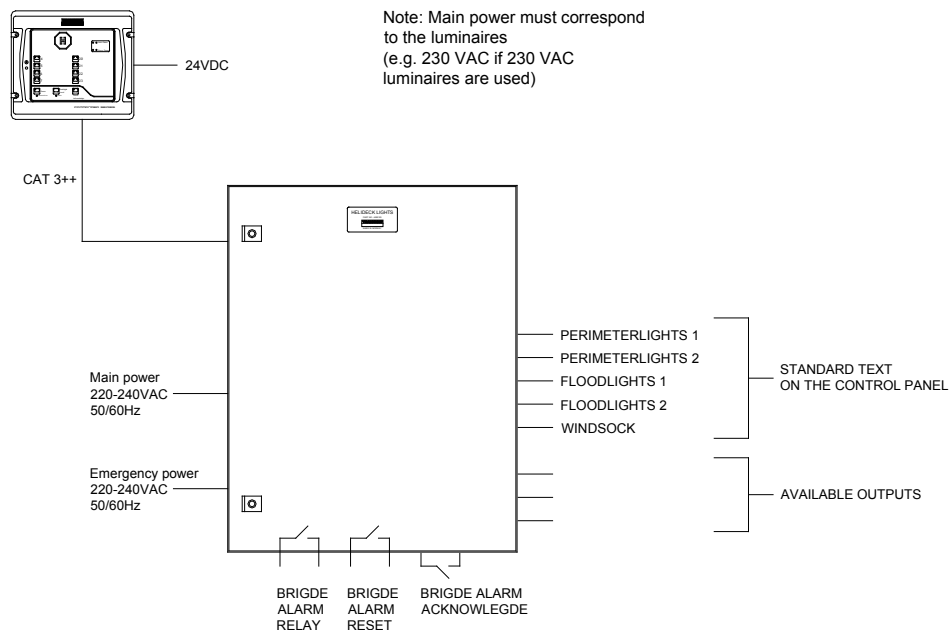
Control cabinet



Terminals for main power and all consumers

Space for extra contactors and circuit breakers

TERMINATION



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