Control Panels for Navigation Lights

Our next generation and proven quality navigation- and signaling lights controllers
- suitable for Series 65 LED lights and conventional incandescent lights

Control Panels - Navigation Lights
- Control Touch Panel LED: Page 40
- Control Panel: Page 42
- Switch Panel: Page 44
aqua signal Control

Control Touch Panel (LED)

- Suitable to switch and monitor aqua signal LED navigation and signalling lights series 65 and lights with traditional incandescent lamps
- aqua signal new generation navigation and signalling lights controller

Control Unit

Switches with control function:
Frontplate consisting of aluminium plate with printed foil, standard colour black - other colours upon request, with up to 4 freely programmable settings, for example "Sailing" or "At Anchor". With coloured diodes in the ship / mast symbol which are illuminated when the respective light is switched on.
With visual and acoustic alarms.
With alarm acknowledgment and alarm test, indication LEDs are dimmable

Switch and monitoring unit:
On mounting plate which has to be accommodated in a steel box. It contains the relay cards, power supply unit, melting fuses/or circuit breakers and terminal rails. In case of control unit failure the lights can be switched by hand in the switch and monitoring unit

Measurements:
For 16 + 16 + 16 circuits
Width 750 mm
Height 900 mm
Depth 120 mm
For 16 + 16 circuits and
for 8 + 8 circuits
Width 750 mm
Height 600 mm
Depth 120 mm

Approvals
Germanischer Lloyd - others pending

Electric
24 VDC 230 VAC/115 VAC ± 10% - 50/60 Hz

Special features
With bus connection RS485 - Standard to IEC Norm 61162-1

Product | Part-No. | Introduction text | Measurements | Weight (kg) | Drawing
--- | --- | --- | --- | --- | ---
aqua signal Control | 3425502 | For max. 16 circuits (8 main + 8 standby lanterns) | Frontplate: 214 mm x 164 mm Aperture: 188 mm x 138 mm Depth: 80 mm | 1.0 | Drawing no. 3425502
aqua signal Control | 3425504 | For max. 32 circuits (16 main + 16 standby lanterns) | Frontplate: 214 mm x 251 mm Aperture: 188 mm x 225 mm Depth: 80 mm | 1.3 | Drawing no. 3425504
aqua signal Control | 3425506 | For max. 48 circuits (16 main + 16 standby lanterns + 16 extra main lanterns) | Frontplate: 214 mm x 307 mm Aperture: 188 mm x 273 mm Depth: 80 mm | 1.5 | Drawing no. 3425506

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Description

The panel consists of a front plate with switches, indicators and a casing, and two terminal blocks. The terminal blocks must be connected to the lamp circuit by the electronic detector. The terminal blocks are numbered, and the connecting scheme can be seen from the individually supplied terminal plan.

Detector unit

The supervision of the lights is being affected by voltage monitoring and indirect measurement of the lamp current. There is no electrical connection between the lamp circuit and the detector unit. In case of failure of the detector, the navigation and signalling lights remain unaffected. The terminals are numbered. The connecting scheme can be seen from the individually supplied terminal plan.

Front plate

Natural or mat black anodized. AllRALcolours available at additional charges.

Important

For units with input voltage monitoring, systems voltage supply to the unit has to be cut off prior to removing print cards because cards of monitoring system are independent on master switch position.

Alarm reset

When pressing the push button "reset", the audible alarm is acknowledged. In case of another circuit failing the audible alarm is re-activated. The visible alarm keeps on flashing until the fault is repaired or the defective circuit is switched off.

Standard

- Input voltage monitoring
- Potential-free contacts
- For external alarm
- Failure of individual lantern
- Failure of lantern voltage
- Failure of panel voltage
- "Alarm Test"

Available variants

- Automatic switch-over between two identical lantern voltages
- Interface for voyage data recorder
- Different voltages between main and standby lights (24 V and 110 V or 24 V and 230 V) limited to 8 circuits

Voltage supply to the panel

The internal voltage processor supplies the control electronic system with DC. For supply to the internal voltage processor see panel voltages.

Radio interference suppression

IEC 60945

Application

Ships where navigation lights are to be monitored.

Approvals

Type-approvals available from all important classification societies. To allow selecting admissable type please advise class in your enquiry.

Housing

Black powder coated

Mounting

After having secured the front plate the mechanical installation is completed (4 screws)

Product Part-No. Introduction text Measurements Weight (kg) Drawing

aqua signal Control 3425405 For max. 16 circuits (main lanterns) double pole double pole melting fuses Frontplate: 200 mm x 220 mm Aperture: 205 mm x 190 mm H x W Depth: 260 mm x 100 mm for cable delta 5.5 3425405 Drawing no. 3425405

aqua signal Control 3425406 Same as 3425405, however, main and standby lights are monitored by the same system (individual switch-over from main to standby instantaneously) Frontplate: 200 mm x 220 mm Aperture: 205 mm x 190 mm H x W Depth: 260 mm x 100 mm for cable delta 8.0 3425406 Drawing no. 3425406

aqua signal Control 3425401 For max. 15 circuits (main lanterns) double pole double pole melting fuses Frontplate: 220 mm x 330 mm H x W Depth: 260 mm x 100 mm for cable delta 7.1 3425401 Drawing no. 3425401

aqua signal Control 3425402 Same as 3425401, however, main and standby lights are monitored by the same system (individual switch-over from main to standby instantaneously) Frontplate: 220 mm x 330 mm H x W Depth: 260 mm x 100 mm for cable delta 7.1 3425402 Drawing no. 3425402

aqua signal Control 3435405 For max. 16 circuits (main lanterns) double pole double pole by automatic circuit breakers acting thermally and mechanically Frontplate: 200 mm x 220 mm Aperture: 205 mm x 190 mm H x W Depth: 260 mm x 100 mm for cable delta 5.5 3435405 Drawing no. 3435405

aqua signal Control 3435406 Same as 3435405, however, main and standby lights are monitored by the same system (individual switch-over from main to standby instantaneously) Frontplate: 200 mm x 220 mm Aperture: 205 mm x 190 mm H x W Depth: 260 mm x 100 mm for cable delta 7.1 3435406 Drawing no. 3435406

aqua signal Control 3435407 Same as 3435406 however, for max. 16 circuits Frontplate: 260 mm x 330 mm H x W Depth: 260 mm x 100 mm for cable delta 8.0 3435407 Drawing no. 3435407

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Switch-Panels for switching of non-safety related lighting, e.g. deck-lighting, interior lighting, searchlights etc., foldable masts with limited switch control

- Max. 4 A per circuit
- Higher Amps. via relays possible
- Switch status is shown in illuminated switches and in mimic (LEDs)
- Direct switching to the consumers or in case of connection to a dimming system only indication via LEDs
- Diodes are dimmable
  - With LED-test

**Housing**
Powder-coated, colour according to customer’s request

**Frontplate**
Anodized, black or natural, other colours possible (RAL Chart). With Ship mimic, Deck mimic or depiction of the respective location where the consumer is positioned.
Measurements as per customer’s requirements

Custom-made panels according to your requirements:
Size, design and colour of the frontplate. For a quotation we request your technical requirements.