Searchlight Operating Panel
By Sealight

Installation & User's Manual

SEA LIGHT

Dear customer
Thank you for choosing our Sealight control panel for searchlights
The panel is assembled in Norway by a dedicated team in the segment marine lighting.

Introduction to Sealight AS
Sealight AS is a forward-thinking technology company established to meet the growing demands of innovative solutions in the maritime and industrial sectors. Since our inception, we have been dedicated to delivering high-quality products and services that enhance operational efficiency and safety.
At Sealight AS, we specialize in the design and manufacturing of advanced lighting systems and maritime equipment tailored to the specific needs of our clients. Our cutting-edge products utilize the latest advancements in technology, ensuring superior performance, durability, and energy efficiency.
Our team of experienced engineers and industry professionals collaborates closely with clients to understand their unique requirements, allowing us to provide customized solutions that drive success in a competitive market.
As we grow, Sealight AS remains devoted to upholding the highest standards of quality and safety in all our operations. We take pride in our environmental responsibility, implementing sustainable practices in our production processes.
We invite you to explore our technical manual, where you will find detailed information about our product offerings, installation procedures, and maintenance guidelines. Thank you for choosing Sealight AS as your trusted partner in lighting solutions and maritime technology

For questions about the product or other marine light products please contact

Sealight AS
Fladebyveien 1
1746 Skjeberg
Norway

post@sealight.no
Tel: +4748138551

ww.sealight.no

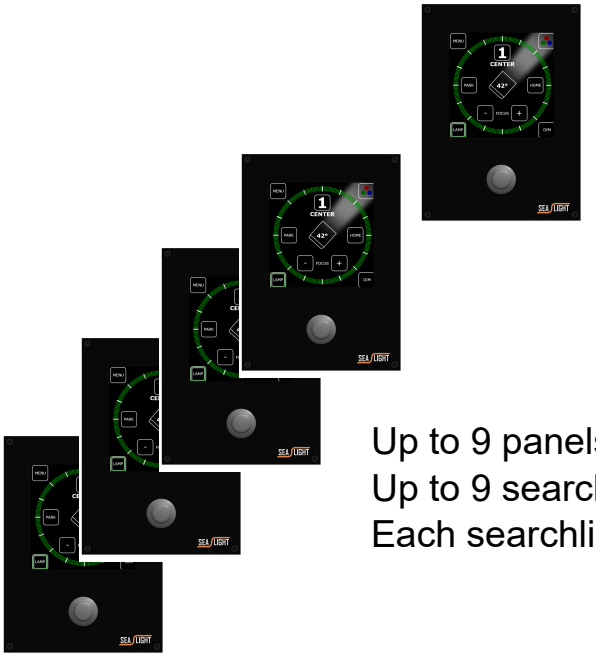
Table of Contents

1 Technical Data

1.1 Technical Specifications

Input	
Voltage	Nominal 24V min 10V Max 30V
Power consumption	Max ?
Power consumption standby	?
Current at 24V	?
Electrical interface	Cable 1 /Ethernet
	Cable 2/DC power 2 wires + and - max 1,5mm2
Environmental	
Operating ambient temperature	-40℃ to +50℃
Storage temperature	-40℃ to +70℃
IP-class Front	IP 44
IP-class backside	IP 20
Humidity	?
Vibration	Designed for IEC 60945
Shock	Designed for IEC 60945
Start-Up	
Boot time from power off	XXXXsec
Dimensions & Weight	
Size	H 150mm W 110mm D 35mm
Weight	?
Controller	Suitable for Norselight R50 and R60 searchlight

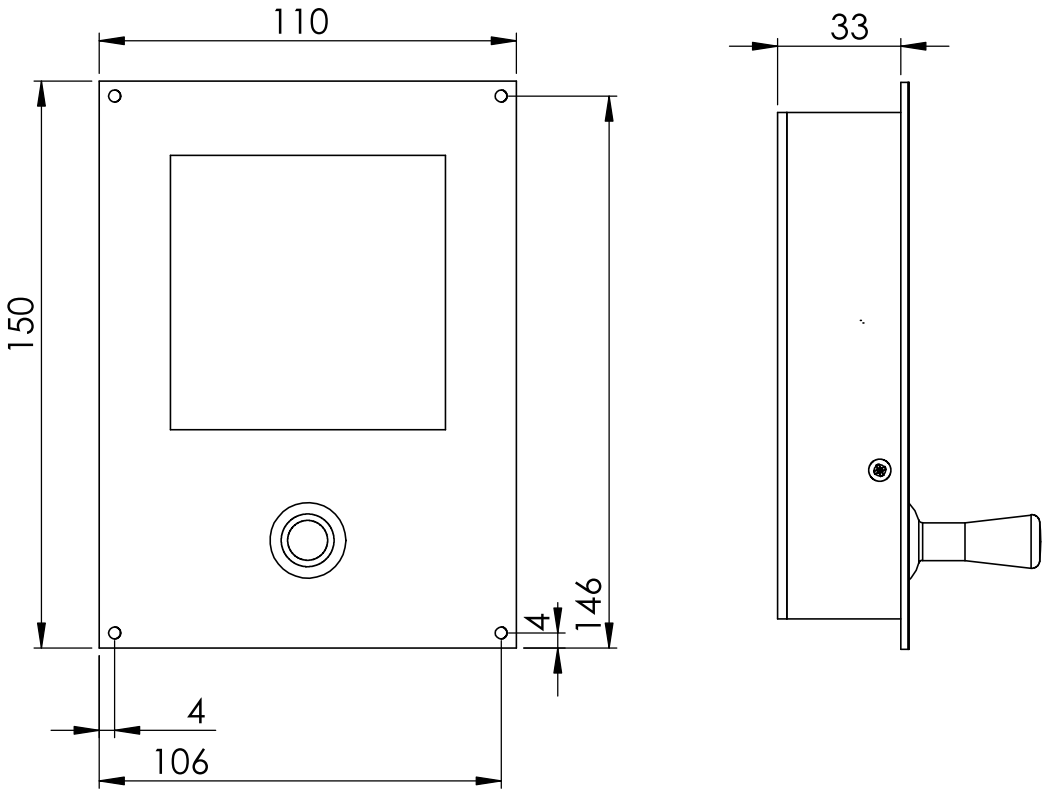
The controlpanel is designed to control Norselight searchlight R50 and R60 system



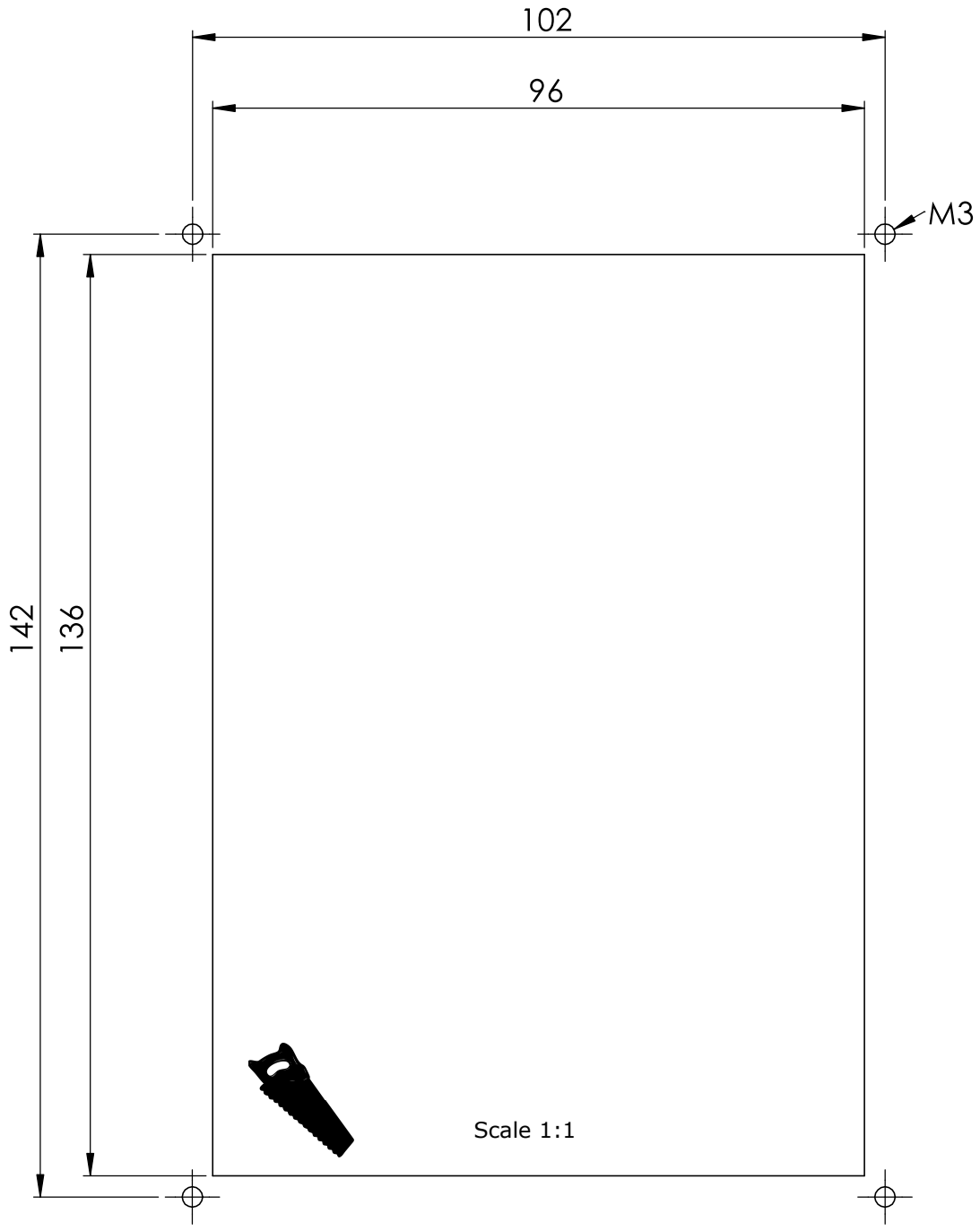
Up to 9 panels can be used in the system
Up to 9 searchlight can be controlled
Each searchlight can be enabled on each panel

The network is Ethernet with static IP-addresses
Each panel must be connected to the local network
LAN-switch

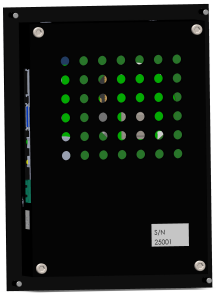
1.3 Dimensions



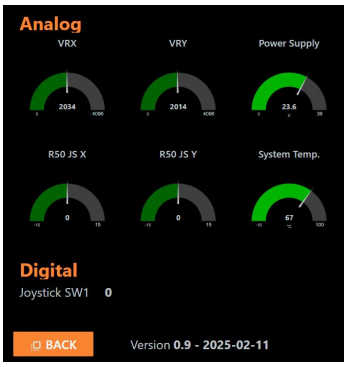
1.4 Cut out drawing



1.5 System identification



On the backside of the panel
there is a sticker with seriel number



In menu Panel Information,
the Firmware and Software version is displayed

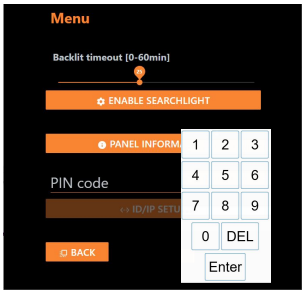
2 Preparations for use

2.1 Settings / IP-address

The static IP network is operating in the range 192.168.1.xx
x=The panel range is from 21 to 29
Default address is 21

All used panels must be unique.
To change the address enter Menu from main view.

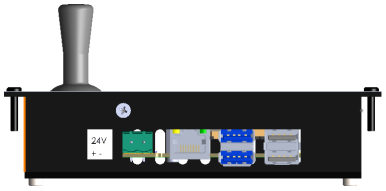
PIN-code 1234



Note that old R50 panels are in the same range 21-29

Searchlight IP-range 11-19
R60 Control panel IP-range 31-39
Wireless antenna IP-range 51-59
Wireless Operating Panel IP-range 61-69
Third party IP-range 81-89

2.2 Electrical connection

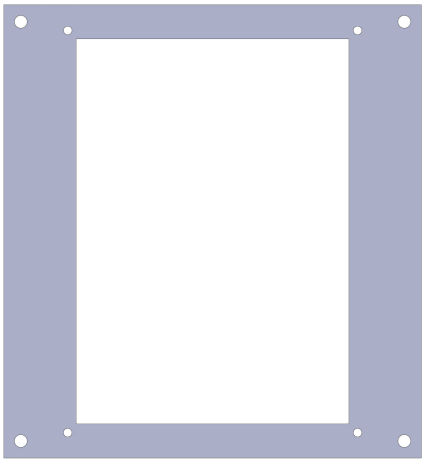


24V DC
Recommended fuse 3A C
Ethernet RJ45
4xUSB for future use

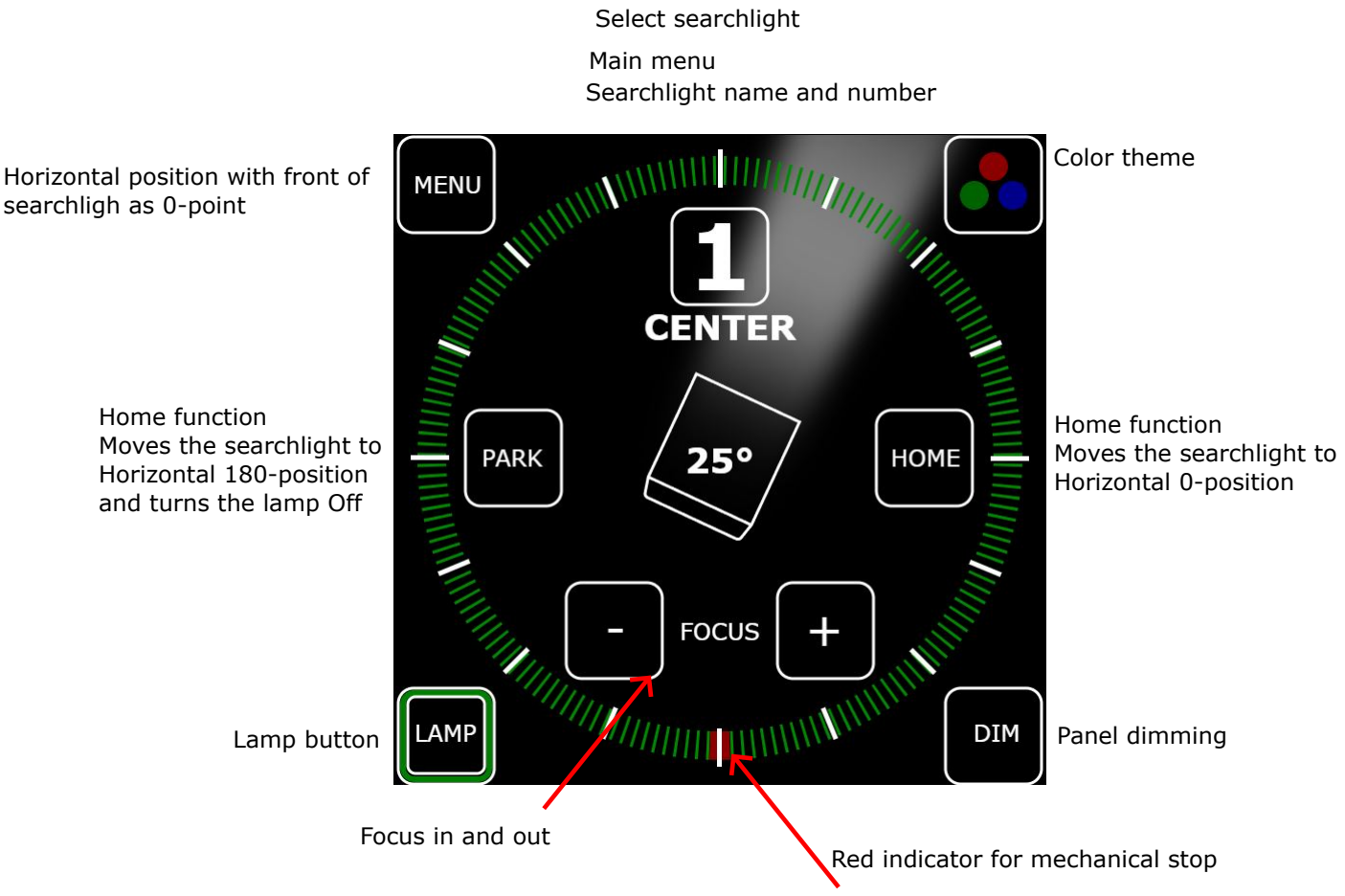
2.3 Mechanical installation

Mounting of panel in new place
Follow the cutout drawing
4 pcs M3 bolts is provided

Replacement of Norselight R50 panel
The Sealight panel is smaller than R50 so an adapter is needed.
The adapter wil fit the old holes.
Adapter plate can be purchased from Sealight item No. xxxxxxxxxxx



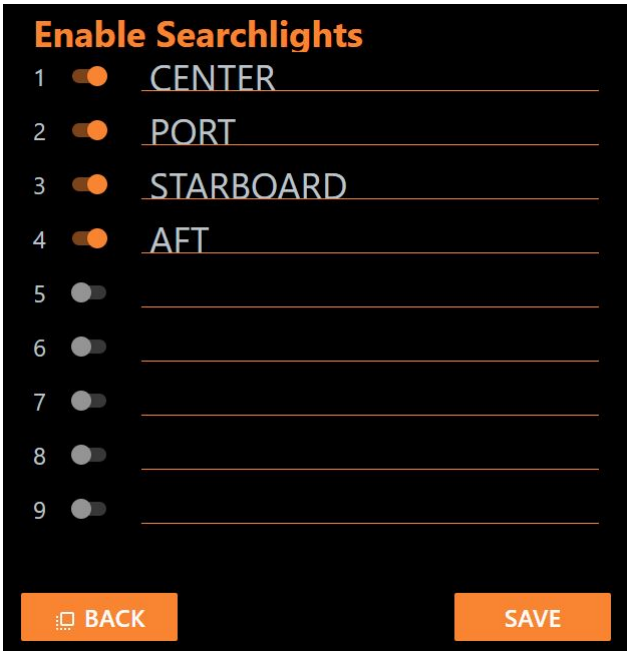
3 Operation/Use



3.1 System setup

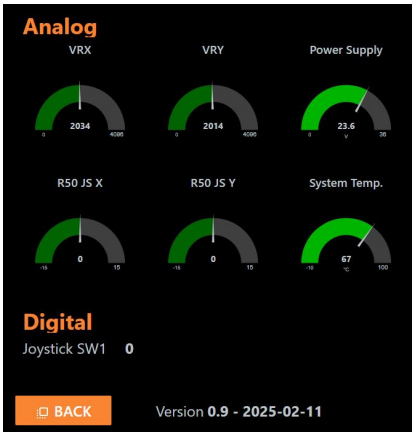
Turn On all searchlights in the network that shall be controllable by this panel.
Enter the wanted name on each searchlight

This must be done on all panels in the system.
If a searchlight is not wanted to be controlled by this panel, turn it off.
If a serchlight fails / no communication it is better to turn it off until it gets repaired



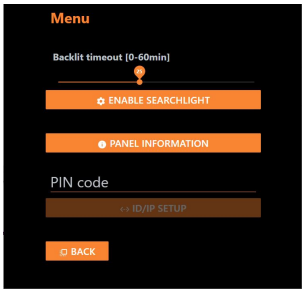
3.2 Joystick handling

The joystick is proportional
This means that the more from center it is moved the faster the searchlight moves.
In Menu / Information it is displayed all directions



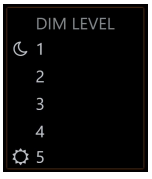
The joystick can be pushed down to activate ???????????
status is displayed as Digital SW1

3.3 Display / Backlit



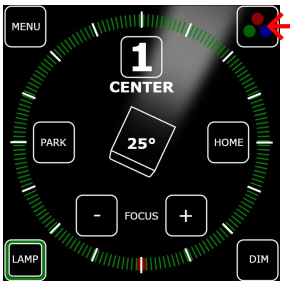
The display can be turned off after preset time 1-60 min.
When the timeout is set to 0 it is always on.
Use the slide-bar to change the value

3.4 Light dim level

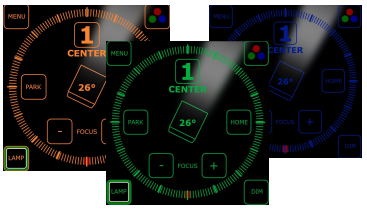


When pressing the DIM-button a popup view displays
Dim-level 1-5 . Select wanted level, lowest is 1

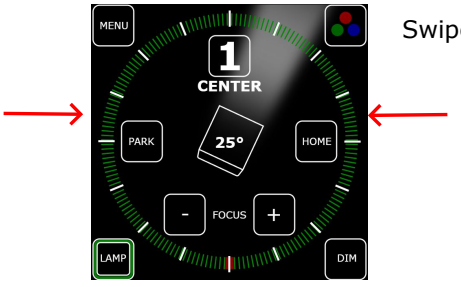
3.5 Color Theme



Select color from popup menu

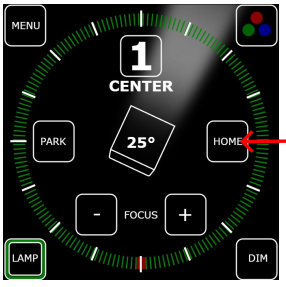


3.6 Main page



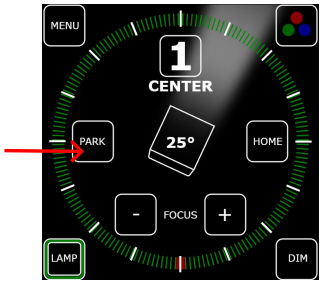
Swipe from left or right to change menu

3.7 Home function



Home button:
The searchlight will move to horizontal 0-position with 50% speed.
Accuracy +- 1 degree
The movement is aborted if joystick or park button is activated

3.8 Park Function



Park button:
The searchlight will move to horizontal 180-position with 50% speed.
Accuracy +- 1 degree
The movement is aborted if joystick or home button is activated

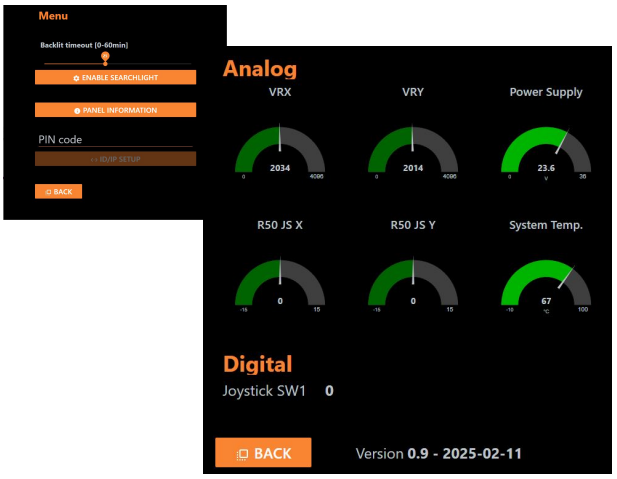
3.9 Third party integration

The panel and searchlight network can be integrated with Third party system
Please go in contact with Sealight for application

4 Troubleshooting

If the joystick doesn't react as supposed it can be checked'
in the Panel Information menu.
Move the joystick in all directions and check the analog signals on the 4 left gauges. The movement is linear.

Power supply must be between 10 and 30V
Maximum CPU temperature 85 deg C



4.1 Alarm

Possible alarms

Alambanner in the lower end of the display

If the communication between panel and searchlight is lost for > 1 min
Alarm "Lost communication SLx" appears . (x= searchlight 1-9)

If the current on the Vertical motor exceeds the motor setting
"T Vertical motor blocked"

If the current on the Horizontal motor exceeds the motor setting
"T Horizontal motor blocked"

If the current on the Focus motor exceeds the motor setting
"T Horizontal motor blocked"

The motor settings are set in the searchlight control system.

Typical R50 system current
Vertical 2,5A
Horizontal 2,5A
Focus 0,6A

Typical R60 system current with Sealight Motor driver
Vertical 3,5A
Horizontal 3,5A
Focus 0,6A

4.2 Remote support

Remote support can be done via Internet

Please go in contact with Sealight

Download Anydesk from anydesk.com (Free license)
Connect your computer to internet and LAN-cable to the LAN-switch
in the searchlight network.
Set your computer to static IP with address 192.168.1.99 IPv4 mask 255.255.255.0

Send the Anydesk address to Sealight and allow access when connecting.
Firewalls and other passwords must be open.

4.3 WEB-Interface

Connect your computer with a LAN-cable to the LAN-switch
in the searchlight network or directly to the actual panel.
Set your computer to static IP with address 192.168.1.99 IPv4 mask 255.255.255.0

In a browser : wright 192.168.1.21:1880/ui *
21 can be replaced up to 29 , check actual IP-address in Menu panel information.

5 Accessories and Spare Parts

Up to 9 panels can be used in the same network
Taylor made functions can be implemented

Panel item No. 100133

6 Warranty

The Supplier shall in a period of two (2) year following the date on which the risk in the Products passed to the Purchaser, be liable for manufacturing and material defects in the delivered Products. The Supplier's liability for defects is limited to defects that the Purchaser can prove existed at the date the risk in the Products passed to the Purchaser.
The Purchaser shall notify the Supplier in writing of any defects in the Products that has been detected upon arrival inspections, installation or use of the Products, immediately, and no later than 30 days following the detection of the defects of the products. Should the Purchaser fail to provide the Supplier with such notifi cation, the Supplier shall be discharged of any liability for defects in the Products that reasonably could have been detected by such inspections.
Upon receipt of a product defective notice, the Supplier shall, at its own choice, either repair or replace the defective Products. The Supplier shall be given reasonable time and opportunity for such repair or replacement and any denial of the same by the Purchaser shall discharge the Supplier from his liability.
The precondition for repair or replacement of the defective products related to manufacturing or material defects under the warranty period shall be that the products have been used and or installed;
• Purely in accordance with their intended purpose and application specifi cations,
• Within the specified operational envelope, e.g. environment boundaries,
• With power within the specified range, i.e. voltage, current and frequency boundaries,
• In a professional and legal manner and in accordance with product data sheet, service manual and installation instructions provided.
The warranty does not cover;
• Product defects due to general incorrect or negligent storing or use of the products,
• Product defects due to exposure to extreme conditions, e.g. thunder, lightning, water ingress, fi re, bad ventilation or other conditions beyond the control of the Supplier,
• Parts that need to be replaced due to normal wear and tear, e.g. batteries.
• Failures due to compatibility issues between the products and the installation environment, e.g. control systems, power supply systems etc.
• Products that have been modifi ed or repaired without the prior written approval of the Supplier,
• Normal maintenance and repair work of the installed products.
In so far as the Purchaser's notifi cation of defects proves justifi ed the Supplier will cover necessary costs related to the repair work or replacement of the products leading to a full restoration of the defective Products.
The Purchaser shall not be entitled to return the Products to the Supplier unless the Supplier has provided his prior written approval thereto.
If the repair or replacement of defective Products is unsuccessful or cannot be effected within agreed deadlines, the Purchaser shall be entitled to cancel the contract whereby the Supplier shall credit the Purchaser for the payments that have already been made for the Products (if any).
5.2 Limitation of liability
Except as stated in clause 5.1 above, the Suppliers liability is limited to claims for damages caused by the Supplier's gross negligence or willful misconduct.
The Supplier's liability is under any circumstance, limited to direct losses, whereby the Supplier shall not be liable for indirect or consequential losses such as, but not limited to, stop in Purchaser's production or sale, deprivation, loss of profi t due to the Purchaser not being able to fulfi l contracts with its customers or others and damage caused by the Products to other products.
The Supplier shall, to the extent permitted by applicable law, have no liability for personal injuries or property damage caused by the Products.
The Purchaser's right to claim compensation for damages shall, except as stated in clause 6, only apply twelve (12) months after the date of delivery of the Products.