NMEA2000®
NAVIGATION LIGHT CONTROLLER AND 8 CHANNEL EXPANSION MODULE

FEATURES

- Controls and monitors up to 8, 16 or 24 LED lights (with 5972 expansion modules)
- Reports LED degradation and wiring faults
- Reports LED power on hours with alarm
- Local panel red/green status indicators for each circuit
- Full mimic display on any Poseidon® screen
- Primary and automatic standby power source for LEDs with alarm indication
- Manual override on and off at controller panel
- Automatic resettable fuses on each circuit
- Standard DIN rail mounting
- Suitable for all vessel types and sizes
- Designed to IEC60945
- NMEA2000® Certified



Oceanic Systems 5971 Navigation Light Controller and the 5972 8 channel expansion modules offer full control and monitoring of LED navigation lights over a standard NMEA2000® network.

The units are designed to control and monitor up to 24 LED Navigation Lights with full monitoring of LED and wiring integrity so that any failures are detected and indicated. There is a single current calibration button that allows the installer to calibrate the unit to each LED circuit so that partial LED failures or wiring failures are detected.

In addition, the unit tracks LED power on hours and warns when the LED has reached its useful life and needs to be replaced to maintain safe navigation light visible distances.

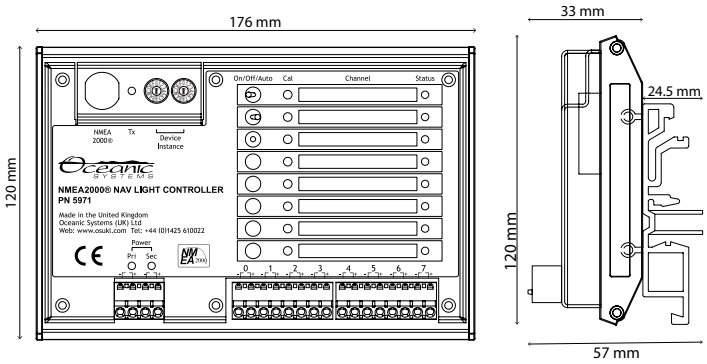
Each circuit has a manual override on or off and a self resetting safety fuse.

The units are standard DIN rail mounted and have WAGO style cage clamp connections.

NMEA2000® NAVIGATION LIGHT CONTROLLER

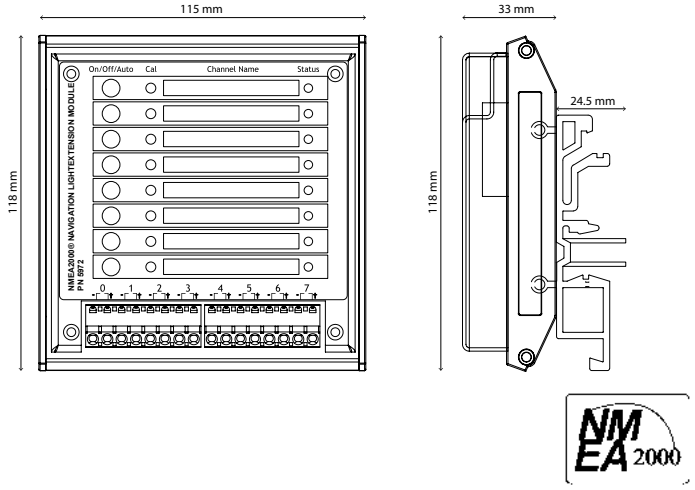
Part Number 5971

Dimensions



Part Number 5972

Dimensions



Design Standard

NMEA2000®	Certified
Maritime Nav and RadioComm Equipment	Designed to IEC61162-3
Maritime Nav and RadioComm Equipment	Designed to IEC60945
CE and FCC	Electromagnetic Compatibility
Class Approval	Designed to DNV Navigation Light Controller standard

NMEA2000® Parameter Group Numbers (PGNs)

Description	PGN	PGN Name	Default rate
Control PGN	127502	Switch Bank Control	N/A
Periodic data PGNs	126993	Heartbeat	60 secs
	127501	Binary Status	2.5 secs
Response to requested PGNs	131009	Channel Status (proprietary)	N/A
	126464	PGN List (Transmit and Receive)	N/A
	126996	Product Information	N/A
	126998	Configuration Information	N/A
Protocol PGNs	059392	ISO Acknowledge	N/A
	059904	ISO Request	N/A
	060928	ISO Address Claim	N/A
	065240	ISO Address Command	N/A
	126208	Complex Command	N/A

Electrical and Mechanical

Parameter	Value	Comment
Network Voltage	9 – 32 Volts	DC Voltage
Network Power Consumption	350 mA	Maximum Network Power
Load Equivalency Number	7	1 LEN = 50mA
Reverse battery Protection	Yes	Indefinitely
Load Dump Protection	Yes	Energy rated per SAE J1113
LED Lamp Voltage Switch	12 or 24 Volt	9 – 32 Volts
Max LED Channel Current	750mA	Resettable Fuse
Max Total LED Current	12 Amps	Over 24 Channels
Mount	DIN Rail Mount	
(5971) Weight	395 grams	
(5971) Size	177mm x 118mm x 17.5mm	
(5972) Size	115mm x 118mm	
(5972) Weight	TBA	

Environmental

Parameter	Value
IEC 60945 Classification	Protected
Degree of Protection	IP40
Operating Temperature	-25°C to 55°C
Storage Temperature	-40°C to 70°C
Relative Humidity	93% RH @40°C per IEC60945-8.2
Vibration	2-13.2Hz @ 1mm, 13.2-100Hz @ 7m/s² per IEC60945-8.10
Solar Radiation	Ultraviolet B, A, Visible, and Infrared per IEC60945-8.12
Electromagnetic Emission	Conducted and Radiated Emission per IEC60945-9
Electromagnetic Immunity	Conducted, Radiated, Supply, and ESD per IEC60945-10
Safety	Dangerous voltage, Electromagnetic RF per IEC60945-12

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Our policy is one of continuous product improvement so product specifications are subject to change without notice. Oceanic Systems products are designed to be accurate and reliable. However, they should be used only as aids to vessel monitoring, and not as a replacement for traditional navigation and vessel monitoring techniques.

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