

02 NAVIGATION AND SIGNAL LIGHTS CONTROLLER

NEW!!!



Navigation and signal lights controller is used to control navigation and signal lights operation and alarm in case of failure. Our current model, 5,7" touch screen model with modular design has introduced great innovation on market - possibility to configure lights "on site".

Now our new generation of navigation and signal lights controller makes one big step further in modularity and configurability of the system and easier use for operator.

Main advantages are:

- System is full configurable "on board" without any requirement for special tools or software. This makes it especially useful for new projects (when changes are made) and retrofits (when exact configuration is not available).
- Screen mimic can be configured with predefined selection of pictures or photos, as well as configurable position of lights therefore it is suitable for any type of vessel from luxury yacht to cargo vessel or oil rig. It is also possible to order custom made mimic/photo!
- Lantern properties can be configured – colour, numbering, naming...
- Configurable group of light allow easy and trouble free operation. Any light configuration can be configured as group.
- Different power supply options: 230 VAC, 115 VAC and 24VDC, main and emergency, possibility to connect lanterns with 230VAC main and 24VDC spare power supply.
- Simple "plug-in" light modules suitable for incandescent light bulb or LED lights (Glamox series only).
- Emergency ON-OFF operation of lights included on the case of electric failure.
- Delivery from stock

OVERVIEW



- MAIN UNIT
 - 7" high resolution touch screen
 - modern front glass design
 - flush mounting into console with compact dimensions
 - "power on" and "dimmer" push button on front for easier operation
 - "power on" and "failure" indication
 - programmable function button "F1"
 - "on board" configurable software (light position, color, name, grouping, connection...)
 - wide range of mimic diagrams (picture/photo)
 - two-way NMEA 0183 communication



- Original cable 2.5 m long
- POWER SUPPLY MODULE
 - provides internal power supply as well as power for lights
 - 230V AC, 115 VAC or 24VDC
 - automatic change-over



- Original cables 1,5 m long
- INPUT MODULE FOR LIGHTS
 - for 10 lights (single or double)
 - 230/115 VAC or 24VDC version
 - main and spare lantern possibility (configurable)
 - works with bulbs and Glamox LED lights

up to 5 input modules
(max. 80 lights - 30 double (main and spare) lights and 20 single lights)

- Original cables 1,5 m long
- INPUT MODULE FOR LIGHTS

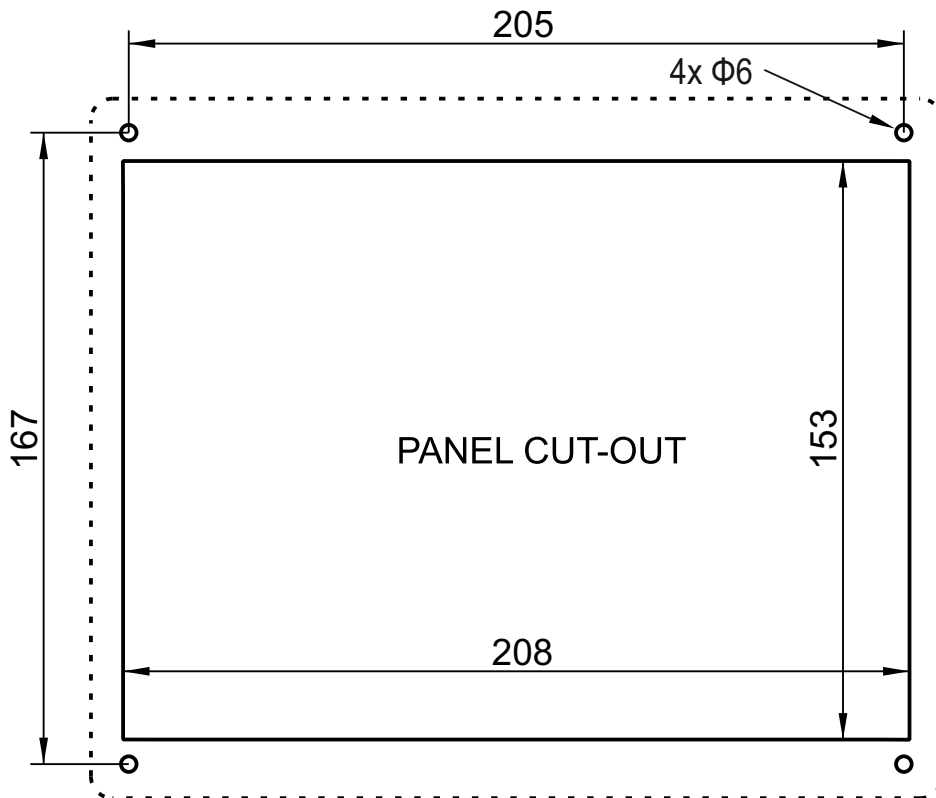
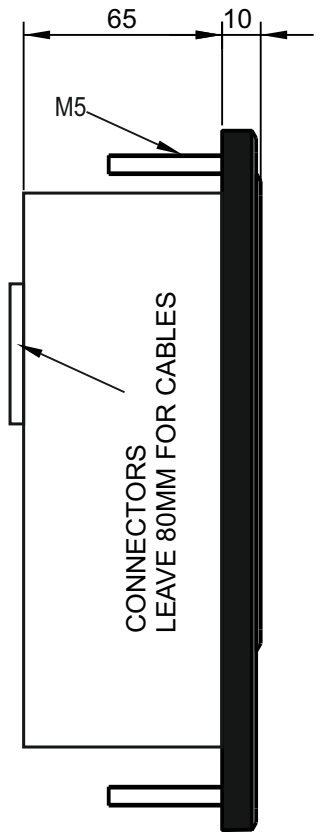
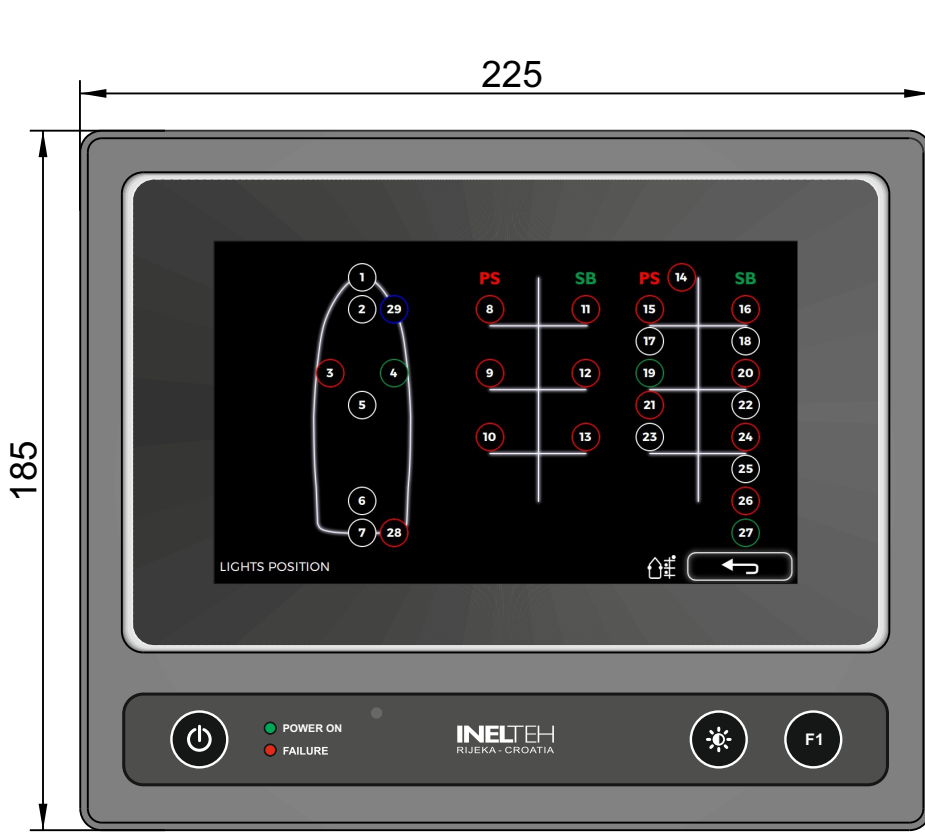
TECHNICAL CHARACTERISTICS



NEW!!!

1. Power supply:
230 V ac or 115 V ac or 24 V dc, depending on version connections for main and spare, automatic change-over, supply change-over signalling
2. Consumption (without lights):
230 V ac version - 0.135 A max
115 V ac version – 0.27 A max
24 V dc version – 2.4 A max
3. Modules' consumption:
Main unit ITNSL-01TP: 19 V dc, 0.54 A max
Input module ITNL-10S-230: 19 V dc, 0.16 A max
Input module ITNL-10D-230: 19 V dc, 0.16 A max
Input module ITNL-10S-24: 24 V dc, 0.27 A max
Input module ITNL-10D-24: 24 V dc, 0.27 A max
4. Maximal configuration: up to 5 input modules can be connected
5. Maximum number of lights: 80 lights (30 double lights and 20 single lights)
6. Lights type: Incandescent bulb or Glamog LED light*
7. Lights' power range: 4-100 W (230 V ac); 4-65 W (115 V ac); 4-40 W (24 V dc)
flashing lights are allowed
8. Input modules power range: 800 W (230 V ac); 430 W (24 V dc)
9. Lights' fuses: 5x20 mm, each pole, mounted on input modules
10. Lights' turn on/off in case of emergency: Manual activation of lights directly on input modules, power supply directly forwarded to lamps, circuits remain fused
11. Alarm outputs:
 - 1 pcs of voltage-free C.O. contacts, 250 V ac/1 A, for broken light circuit alarm and power/system failure alarm
 - 1 pcs of voltage-free C.O. contacts, 250 V ac/1 A, for system off, total power lost or communication to main failure
12. External alarm accept input: N.O. voltage-free contact, quits buzzer only.
13. NMEA communication:
NMEA 0183 transmitter - \$IILR sentences for normal state, alarm state and alarm accepted
NMEA 0183 receiver - \$IACK sentence for external audio alarm acceptance, quits buzzer only

*LED lights with self check and end of operating light need to be used. In case of failure detection light needs to switch to burn out bulb state.

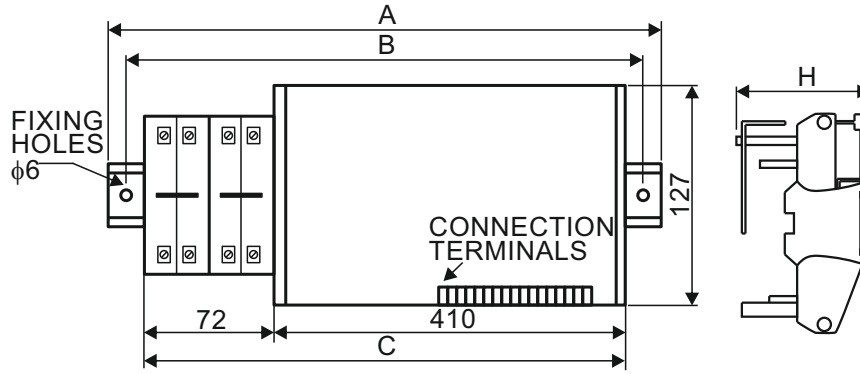


- * Leave enough space for the connectors.
- * Fix the cables with cable strips.
- * Do not overstress the connectors.
- * Minimum cable bending radius is 40 mm.

max panel thickness
15mm

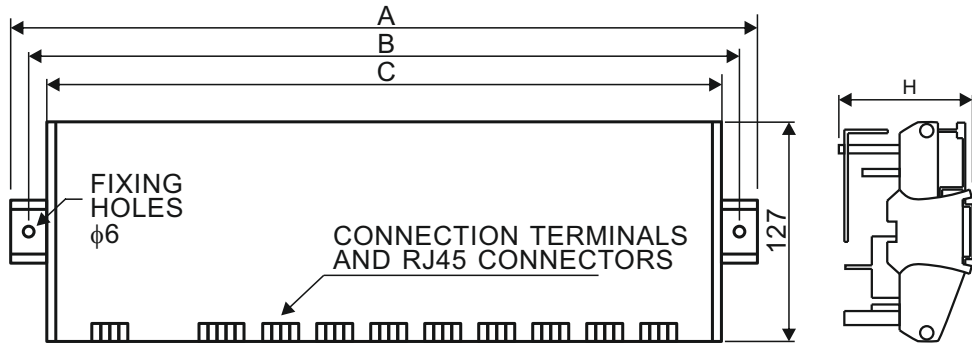
Rev	Changes	Date/Sign	Based by-Project	Date	Sign	Title:		
1			Prepared			NAVIGATION AND SIGNAL LIGHTS CONTROLLER ITNSL-01-230 Outlines		
2			Drawn	12.10.22.	Bettle			
3			Approved					
4								
5								
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POWER SUPPLY MODULE



MODULE	CODE	A (mm)	B (mm)	C (mm)	H (mm)	WEIGHT (kg)
ITNSLP-01P, 230 V AC	02-04-201	525	505	482	93	2,4
ITNSLP-01P, 115 V AC	02-04-202	525	505	482	93	2,4
→ ITNSLP-01P, 24VDC	02-04-203	525	505	482	93	2

INPUT MODULES



MODULE	CODE	A (mm)	B (mm)	C (mm)	H (mm)	WEIGHT (kg)
230 V AC (115 V AC) Input modules						
ITNL-10-D-230	02-04-204	525	505	470	75	1,2
ITNL-5-D-230	02-04-223	350	325	275	75	0,7
ITNL-10-S-230	02-04-205	425	405	365	75	1,0
ITNL-13-S-230	02-04-224	525	505	445	75	1,1
24 V DC Input modules						
→ ITNL-10-D-24	02-04-206	550	530	500	93	2,0
→ ITNL-5-D-24	02-04-225	375	350	305	93	0,7
ITNL-10-S-24	02-04-207	450	435	410	93	1,2
ITNL-13-S-24	02-04-226	550	530	500	93	1,1

NOTE: Main unit may be used in combination with all Power Supply modules.
Light modules operating voltage needs to be exact as Power Supply module voltage.

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