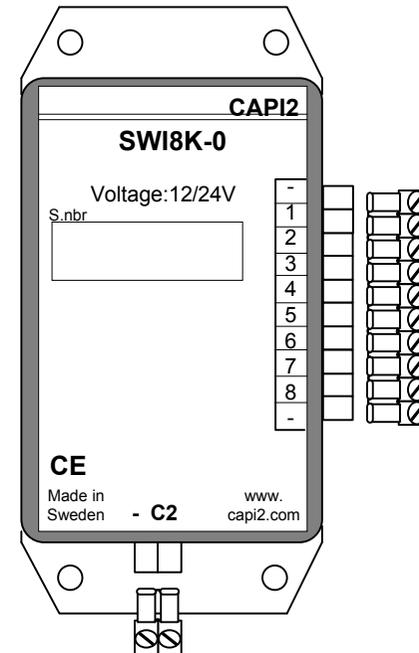


Installation manual

English



**Switch interface 8 keys.
SWI8K-0**

Capi2 BV

Spegelt 29 ; 5674 CE Nuenen ; The Netherlands

www.capi2.com

26/05/2009 PU

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General

The Capi2

Congratulations on purchasing a Capi2 bus power distribution system. The system can be assembled according to CE and ABYC standards. It is essential therefore to follow the installation instructions carefully.

Capi2 is a modern electronically controlled bus system. Special built in features reduce the risk of a cable fire or a low-voltage situation.

Features

Built in features in a complete Capi2 system include:

- An electronic circuit breaker for each load. The circuit breaker can be reset with the push button panel.
- Visual and audible warnings.
- A warning for overloads. The appliance turns off automatically.
- A warning for low voltage. The appliance turns off automatically after a warning.
- A warning for wrong connected + and – power cable.
- Override fuse for each load
- Programmable:
 - Overload protection 3/6/10 /13/16 Amp.
 - As a dimmer
 - For momentary switch.
 - For toggle switch
 - To be controlled by multiple switches.
 - To detect broken cable/lamp.
 - Recovery of essential equipment.
 - Timers.

Safety

About this manual

This user manual describes the installation of the **switch interface**. Read this manual carefully before installation or operation of the product. In case you have any doubt about a procedure contact your dealer.

Safety instructions

Observe all safety instructions. Use this product only for the purpose it is intended for. Please contact your dealer immediately if a potential danger arises during the use of this product.

As used in this manual, the following signal words apply:

DANGER - indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

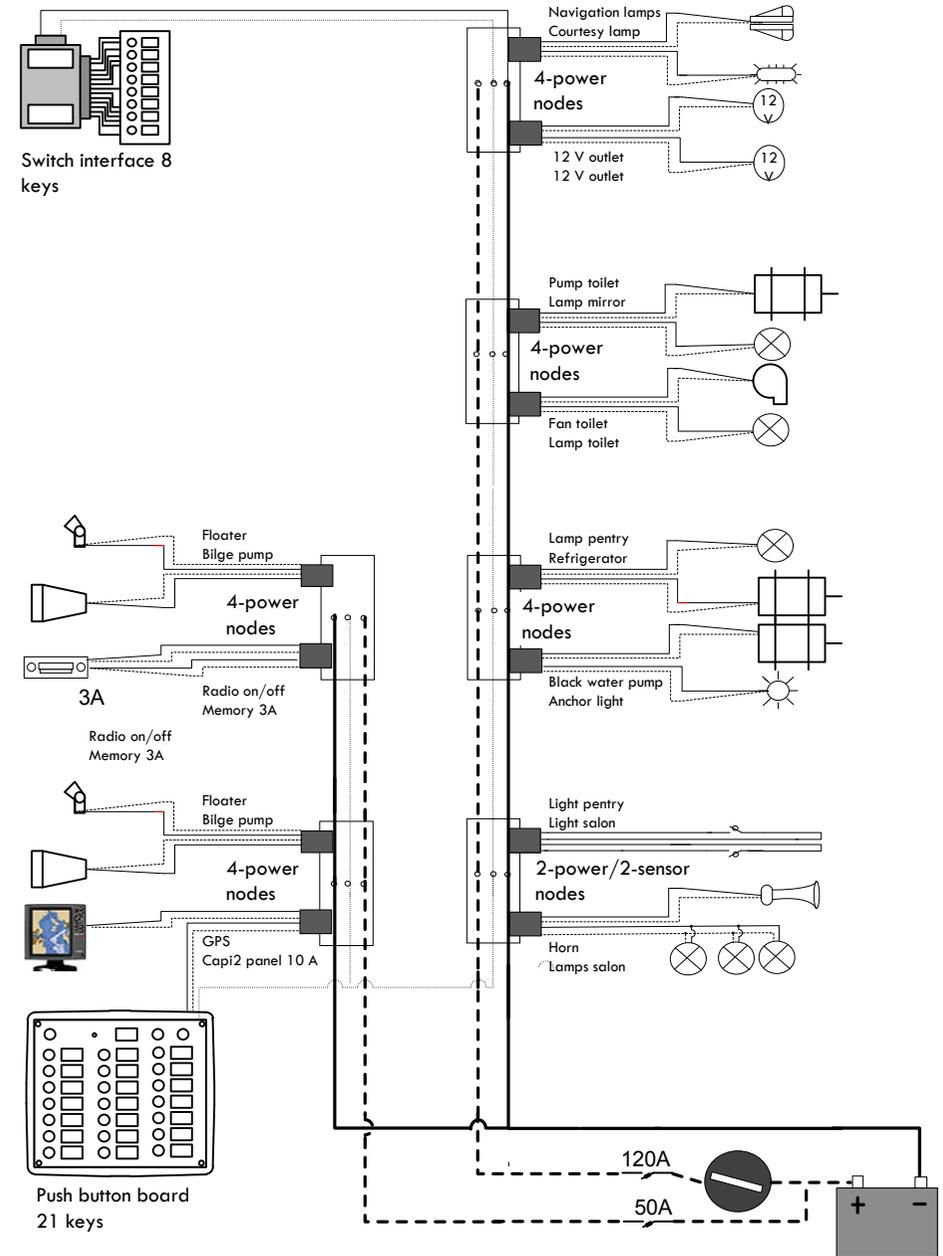
WARNING - indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION - indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury or property damage. It may also be used to alert against unsafe practices.

Service and technical support

For information concerning specific settings, maintenance or repair work, contact your local dealer.

Example of a Capi2 installation



Connect switches/led lamps to the interface.

Both momentary and toggle switches can be used. For indication, can only led's be used. Switches and led's can be combined in different ways and the actual function is set with the Capi2 configuration tool.

Technical specification for led's:

V= 3.0 volt.

For out door use, you can use a high intensity led.

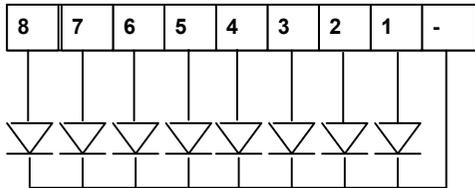


Warning
Use the right size and color of the cabling according to the ABYC and the CE regulations.

Indication panel.

Mount the led's as of drawing.

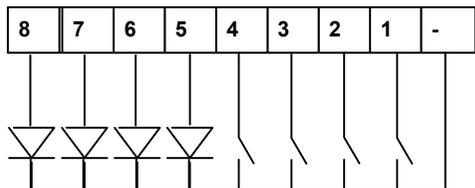
To get enough light for out-door use is it better to use a high intensity led's.



Momentary switch with indication

Mount momentary switches and the led's as of drawing.

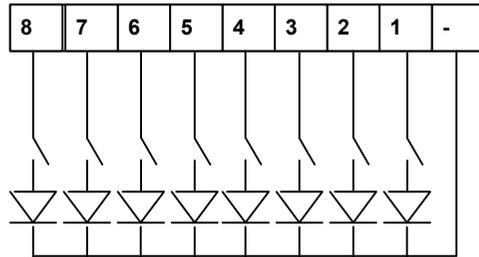
To get enough light for out-door use is it better to use high intensity led's.



Toggle switch with indication

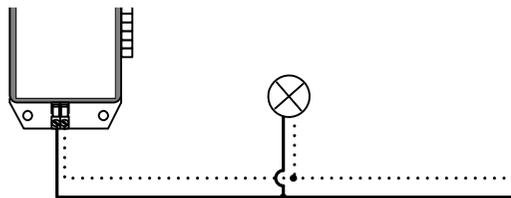
Mount toggle switches and led lamps as of drawing. Notice that the led is in serie with the toggle switch. This way you get feed back of the status of the function connected to the switch. To get enough light for out-door use is it better to use a high intensity led.

This way you can mount 8 switches with indication to one interface



Additional back ground light.

You can take 12 V from the 10 Amp fused bus cable and use it for additional led lamps/lamps. Notice that these lamps can not be dimmed. The voltage from this output is 12 V with a maximum consumption of 6 Amp.



Serial numbers

You can find the serial number on the front side of the switch interface.

Precautions

General

- Never install any components above batteries or fuel tanks.
- Never install components or cables near heat sources that may melt the insulation.
- Never expose components or cables to oil or grease.
- Never install components when there is a risk of exposure to water.
- Never use twist-on connectors. Always follow the requirements in ABYC Standard E-11 or ISO Standard 10133.

Tools

- Always use the correct tool for crimping terminal connectors.

Cable protection

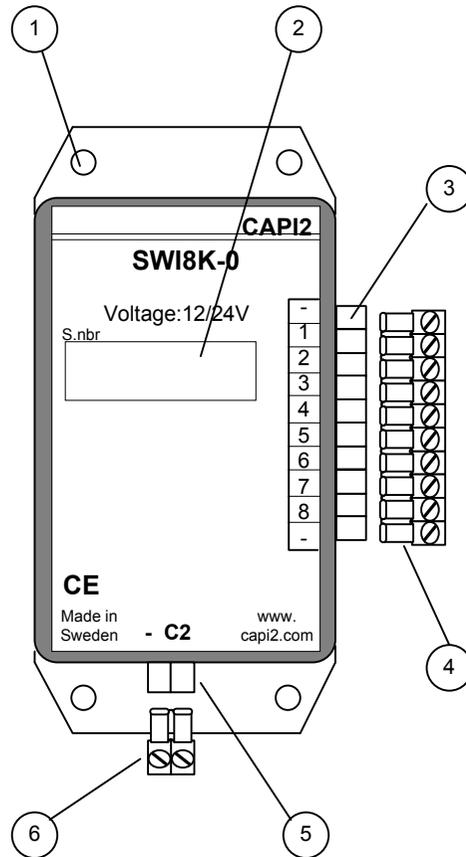
- Always take the necessary precautions to protect the components and cables from damage.
- Always clamp the wires at least every 30 cm (12").
- Always use insulation barriers and covers to prevent a short circuit of exposed terminal connectors.
- Protect cables that pass bulkheads or structural members against damage by grommets or equivalent means.
- Protect components and wires with sheaths, conduits or equivalent means when there is a risk of physical damage.

Cable requirements

- All wires must be fire resistant, fine-stranded and meet applicable ABYC Standard E-11 or ISO Standard 10133 requirements.
- Always use the correct cable diameter and colour according ABYC Standard E-11 or ISO Standard 10133.

Front side

- 1 Mounting holes
- 2 Serial number.
- 3 Input connector (female)
- 4 Input connector (male)
- 5 Connector information cable (C-2) and common (female).
- 6 Connector information cable (C-2) and common (male).



Introduction

This interface can be used and installed in different ways. The function depends on location, configuration, type of switches and indicators.

One or more switch interface can be connected anywhere in the system as long as it is connected to the information cable (C-2) and the common.

Locations:

- Switch functions at the helm
- Switch functions at the flybridge.
- Indication panel at the helm.
- Multiple switch functions in the saloon.
- Alarm panel.
- Combination of switch function and indication.

Function:

- Momentary switches
- Toggel switches.
- Led indication max - 3V
- Switches with timer functions

Connect the interface

This interface can be connected in different ways and on different location.

Multiple unites can be connected anywhere to the system.

Notice that the bus cable (C-2) does not have to be fused as it is already fused before the switch panel 21 keys or the bus generator.

DANGER 

This device is not ignition protected. Avoid serious injury or death from fire or explosion. Do not install in compartments containing gasoline (petrol) fueled engines or gasoline tanks, or in areas where ignition protected equipment is required.

Warning 

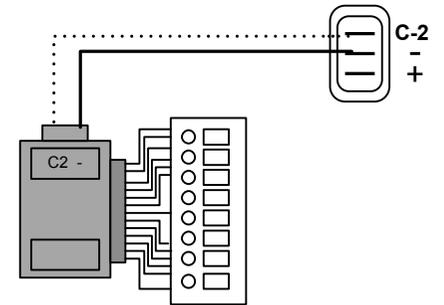
Use the right size and color of the cabling according to the ABYC and the CE regulations.

Suggested size of cable.

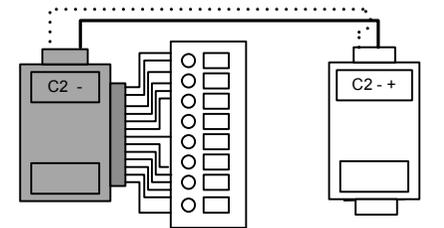
Digital cable:
1,5 mm2/16 AWG marine cable.
The cable can be connected to any C-2 connection anywhere in the system.

Common cable :
1,5 mm2/16 AWG marine cable.

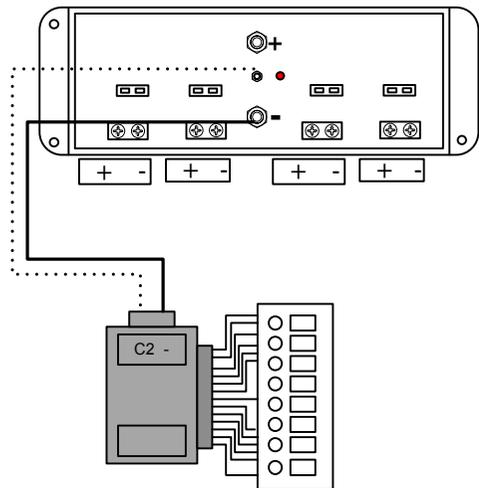
Connected to the Push button panel 21 keys



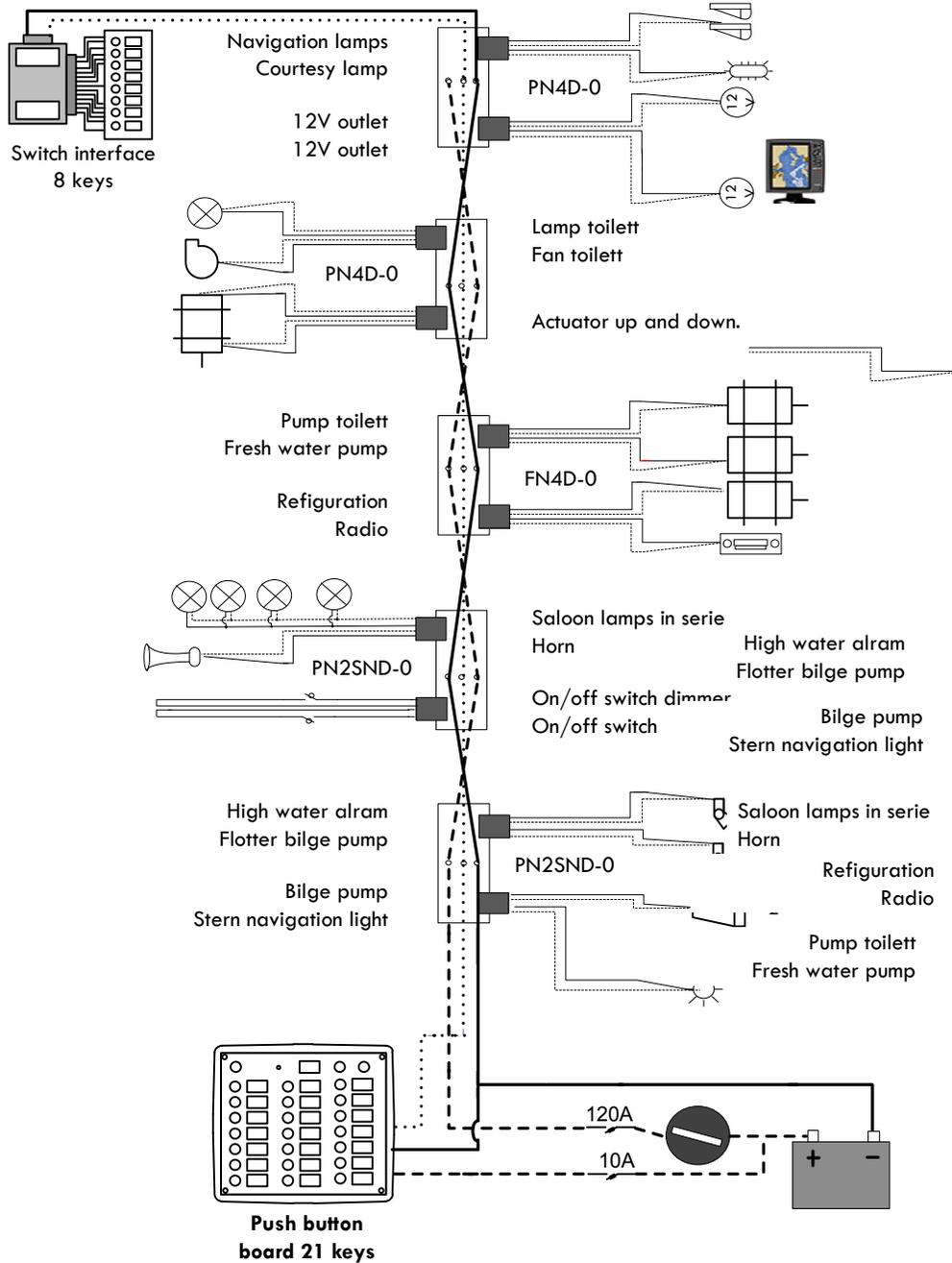
Connected to the bus generator



Connected to the terminals on the node module.



Example of a Capi2 installation



Example of a Capi2 installation

