

INSTRUCTION MANUAL

philippi elektrische systeme gmbh
Neckaraue 19
D-71686 Remseck am Neckar

www.philippi-online.de
info@philippi-online.de
Tel:+49 (0)7146/8744-0 Fax:-22

INTRODUCTION

Distribution panels series STV are used to distribute and protect the electrical 12/24V system. The circuit breakers, control and display elements are located on the front. Each individual circuit is equipped with resettable automatic circuit breakers and free release. On the distribution panels series STV 100-400 series, the circuit is switched on and off via a separate switch. The LED display indicates whether the corresponding circuit is switched on and ready for operation. Some models are equipped with additional battery voltage indicators. The additional current indicators provide information about the currently flowing discharge current. The individual circuits are labelled on the front panel with the enclosed circuit labels by sticking them in the spaces provided. Several circuit distribution panels mounted next to or on top of each other form a system. The distribution panels are suitable for battery voltages of 12V or 24V without the need for modifications.

CONTENT

Power distribution panel
This manual
1 set of self adhesive labels STKZ

ACCESSORIES (TO BE ORDERED SEPARATLY)

Self adhesive labels (1set)	STKZ-D, STKZ-GB, STKZ-FR, STKZ-NL, STKZ-DK, STKZ-I
Stack connectors 6,3mm -2,5mm ²	FSH 6,3/1,5-2,5
Switch 0-1	Order-no. 5 1801 1102
LED green	Order-no. 6 0005 0600
Circuit breaker STV 1xx/3xx/4xx	E-T-A 1140-F114-P1M1-xA

TECHNICAL DATA

Dimensions	see catalogue
Rated voltage	DC 10-28V
Fuse size	8A (standard), alternat.: 4A / 6A / 10A / 12A / 16A
Panel	Aluminium black coated

SAFETY INSTRUCTIONS

- No changes may be made to the unit, otherwise the CE mark will be invalidated.
- The power distribution panel may only be connected by qualified electricians.
- Before connecting the circuit distributor, disconnect the battery connection cables. Ensure that the polarity of the batteries is correct!
- The automatic circuit breakers installed in the distribution panels serve to protect the supply lines to the consumers.
The connected loads themselves are protected by the fuses installed in the units.



The assembly and operating instruction is a component of the STV package. It must be kept (for reference). Importantly: - for later maintenance work - and for the use of subsequent owners of the equipment.

DISCLAIMER

Both the compliance with the operating instructions and the conditions and methods for installation, operation, use and maintenance of the distribution panel cannot be monitored by philippi electrical systems gmbh. Therefore, we assume no responsibility or liability for any loss, damage or expense resulting from improper installation or improper operation.

WARRANTY

philippi elektrische systeme gmbh grants a two year limited and not transferable warranty for the first buyer of this equipment, carried out due to our "general trading conditions". These trading conditions are basis of all sales and delivery offers, they are printed and attached to all offers and confirmation of orders in our catalogues.

CE-CONFORMITY

This product fulfills the requirements of the European Regulation:



2014/30/EU "electromagnetic compatibility"
2013/53/EU "Recreational Craft Directive RCD"

The conformity of the equipment is confirmed by the CE mark.

INSTALLATION

Easily accessible places inside the boat are suitable for installation; usually at the chart table. The rear space should have a depth of at least 15 cm in order to be able to carry out the wiring carefully and clearly and thus safely. It is advisable to install the distribution panel in such a way, that it can later be accessed from the rear for extensions, modifications and possible repairs.

For the installation, make a cut-out of less than 10mm per side edge of the panel dimensions. The panel can be fixed with screws of your choice.

WARNING

High currents can lead to overheated cables or transition resistance if the cables are too thin.

Corroded contacts can lead to overheated cables or connections, which may ignite.

Therefore, observe the printed cable cross-section table and make sure that the connections are carefully made and firmly connected.

CONNECTION

The pre-wired red supply cables (+) 6mm² are connected to the positive pole of the service battery. When extending, the cable cross-section of the supply cable mounted on the distribution panel must not be undercut - risk of fire!

The supply cable must be connected to the battery via an interconnected high-current fuse that is correctly dimensioned for the supply cable cross-section.

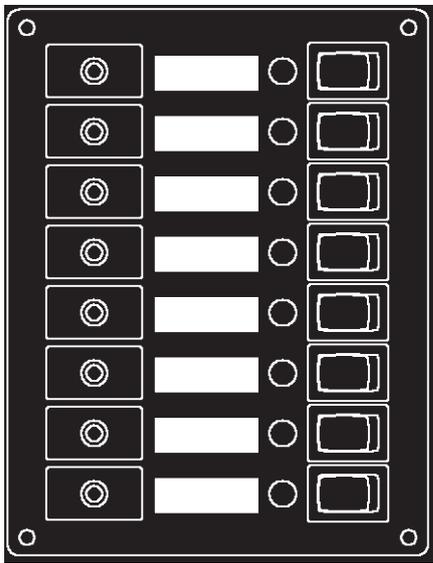
The outgoing consumer cables are connected to the plug contacts of the circuit breakers.

The black negative lead (-) is connected to the negative pole of the battery. It is used to supply the light-emitting diode display and, if a voltmeter is present, as reference earth.

OVERLOAD

In the event of an overload or short circuit of a circuit, the connected loads are switched off by tripping the circuit breaker and the LED display extinguishes.

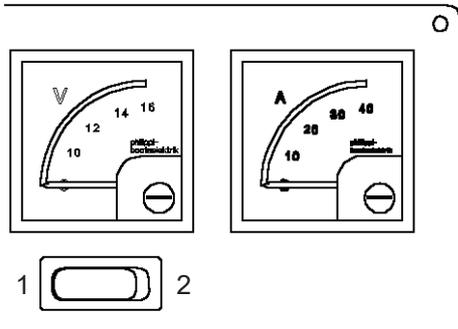
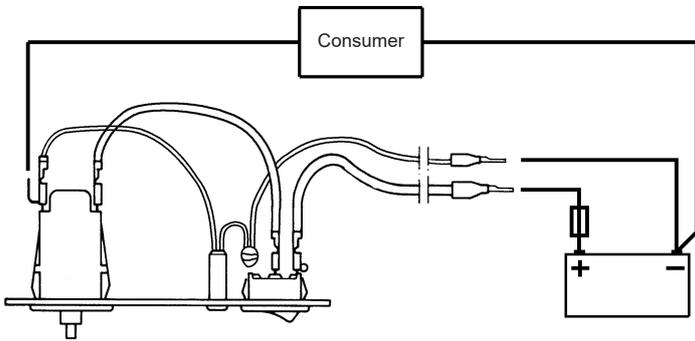
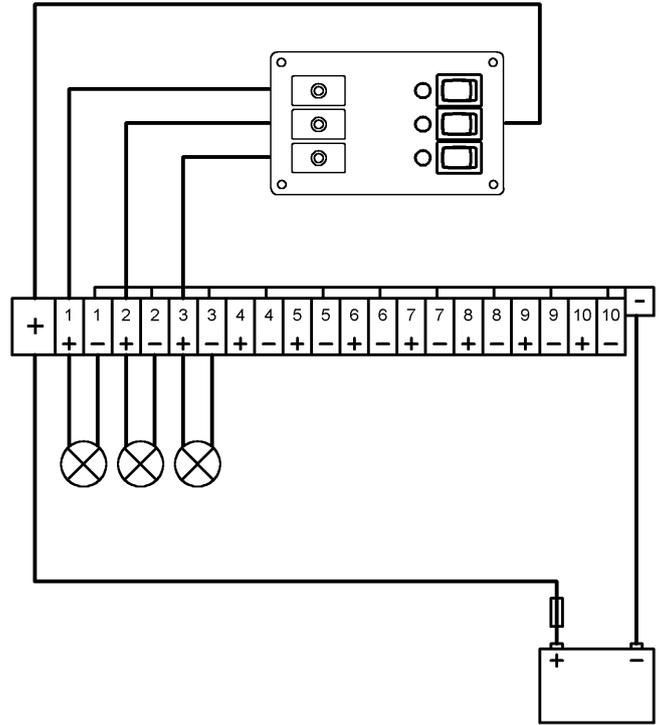
After the overload condition is removed, the respective circuit breaker can be reset by pressing the release button or switching it on again.



Power distribution panel
STV 1xx,
STV 3xx,
STV 4xx

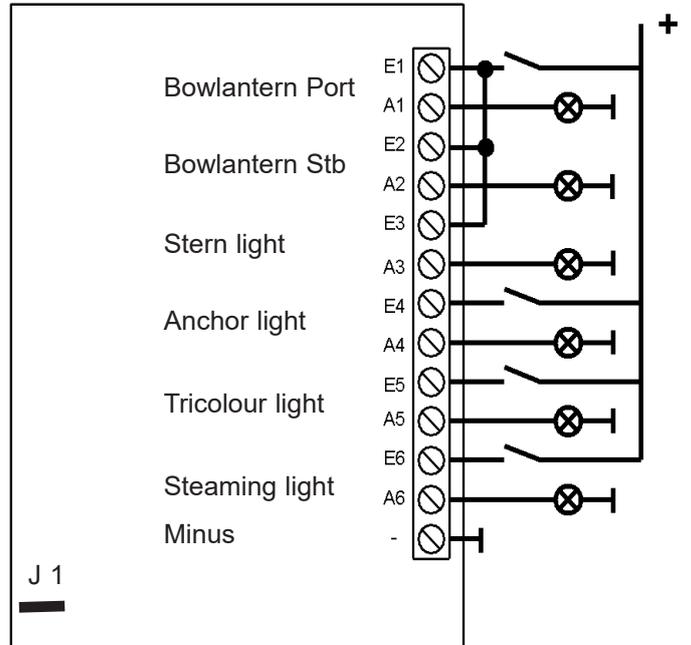
Wire cross section mm ²	Current rating A
1,5	12
2,5	17
4	23
6	29
10	40

Connection of a terminal bar RKL

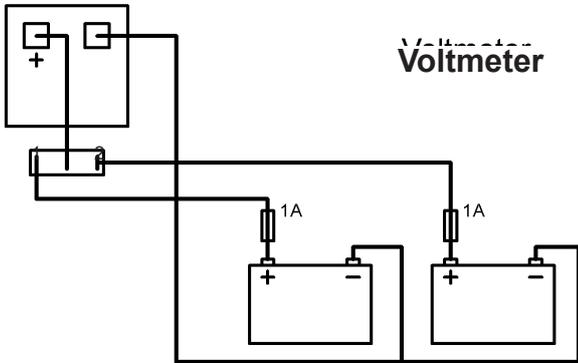


Volt-, Ammeter
STV 3xx
STV 4xx,

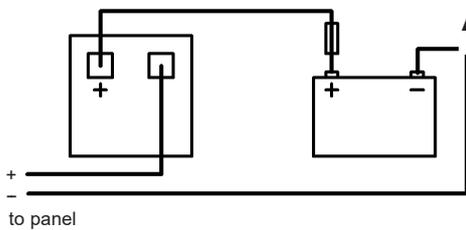
Connection of the position light monitor POS6E



Voltmeter



Ammeter



Wire cross section:

of the connection of the position lights: 2,5 mm² (normal bulbs), min. 1 mm² for LED-navigation lights.

Bowlantern:

If you're using a twocolour - bowlantern, you have to connect it to outlet A1 and the jumper has to remain (delivery status).
If there are two separate position lights (port/starboard), you have to remove the jumper J1.