

Installation and Operating Manual

Switch Panel 4 S 12/24

No. 1288

The switch panel 4 S 12/24 contains four individual switches, each with an associated control LED. It is intended for use in motorhomes, caravans, boats, special and emergency vehicles and can be used in 12 V and 24 V systems. Each switch can be loaded with a maximum current of 8 A.

Installation

The switch panel 4 S 12/24 is usually installed through a cutout in the wall of a furniture or in a cladding wall and is attached with four screws. The rear cutout opening should be covered with electrically non-conducting material (e.g. poplar plywood, 3 mm thickness, or similar material) to ensure efficient protection and full utilization of the storage space, which might be located behind.



If several VOTRONIC units are applied, use the mapped drilling jig on page 2 for marking. The drilling jig facilitates positioning and reduces the expenditure of installation, since time-consuming measuring for alignment is not required.

Connection

The switching inputs with the designation "in 1...4" are switched through by the respective switch to the corresponding output with the designation "out 1...4".

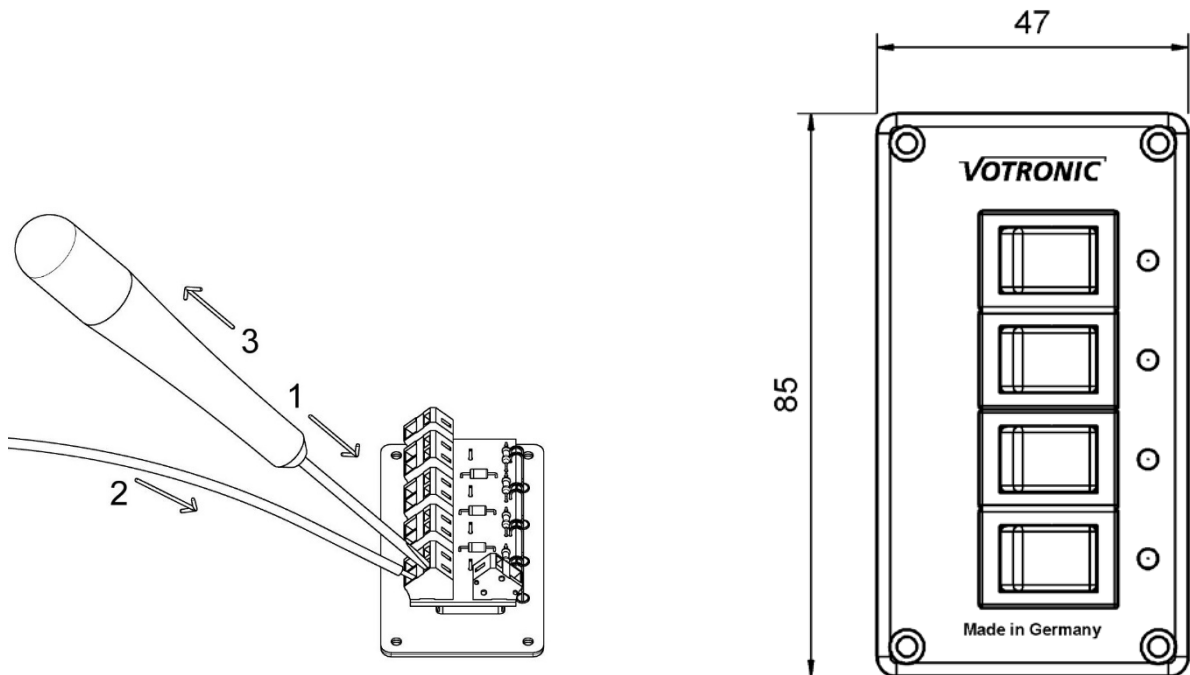
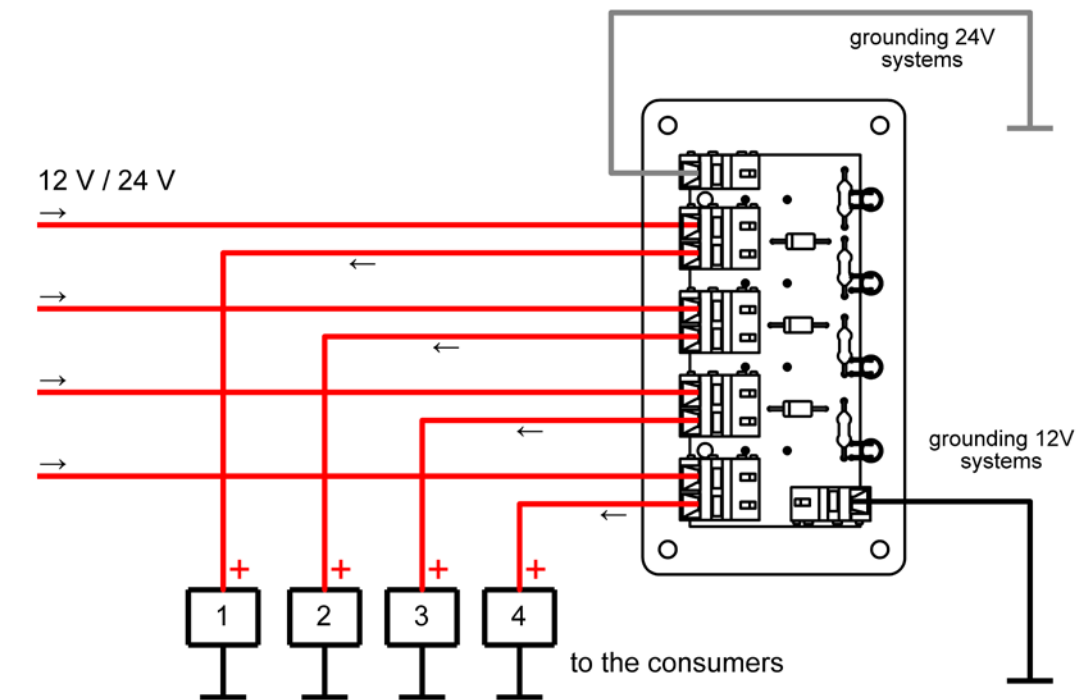
Protection by fuse of the control inputs might be individually or in groups.

In order to combine several inputs, they can be connected to one another via a wire bridge. The "12 V" or "24 V" terminal is required to supply the LEDs. In the case of 12 V systems, the terminal marked "12 V" is connected to the negative pole of the battery or in the case of 24 V systems, the terminal "24 V" is connected to the negative pole of the battery.

Marking

Distinct and abrasion-proof marking can be effected by a VOTRONIC pictograph film (order No. 2112, not included in the standard delivery scope). This marking pattern contains internationally intelligible signs of the size 8x11 mm, which are transparent, self-adhesive and punched.

Connection Plan



Front View



Safety Regulations and Appropriate Application:

The panel has been designed according to the valid safety regulations.

Appropriate application is restricted to:

- 1. Technically faultless condition.**
- 2. Installation in a ventilated room, protected from rain, humidity, dust, aggressive battery gas, as well as in an environment being free from condensation water.**
- 3. With a rear insulating cover of the unit.**
 - **Never use the unit at locations where the risk of gas or dust explosion exists!**
 - Open-air operation of the unit is not allowed.
 - Cables are always to be laid in such a way that damage is excluded. Observe to fasten them tightly
 - Never lay 12 V (24 V) cables and 230 V mains supply cables into the same cable conduit (empty conduit).
 - Check live cables or leads periodically for insulation faults, points of break or loosened connections. Occurring defects must be remedied immediately. The user/buyer is obliged to observe any construction and safety regulations.
 - **Never use solvents or aggressive household cleaners for cleaning of the panel!**
 - The warranty will be void in case of any inappropriate utilisation of the unit, if it is used beyond the technical specification, in case of improper operation or external intervention. We do not assume any liability for any damage resulting hereof. The liability exclusion is extended to any service being executed by third, which has not been ordered by us in writing. Service is to be effected exclusively by VOTRONIC, Lauterbach.

Notes:

Technical Data

Operating Voltage:	12 V or 24 V
Current Consumption each Display LED, off/on:	0/10 mA
Rating, each Separate Switch max.:	8 A
Dimensions:	85 x 47 mm
Mounting Depth:	ca. 25 mm
Weight:	48 g



Declaration of Conformity:

In accordance with the provisions of the statutory requirements and the relevant directives, Electrical Equipment (Safety) Regulations 2016, Electromagnetic Compatibility Regulations 2016, The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 this product complies with the following standards or normative documents:

BS EN55014-1; BS EN61000-6-1; BS EN61000-4-2; BS EN61000-4-3; BS EN61000-4-4; BS EN62368-1; BS EN50498, BS EN IEC 63000.



Declaration of Conformity:

In accordance with the provisions of Directives 2014/35/EU, 2014/30/EU, 2009/19/EC, this product complies with the following standards or normative documents:

EN55014-1; EN61000-6-1; EN61000-4-2; EN61000-4-3; EN61000-4-4; EN62368-1; EN50498.



Disposal of the product in the household waste is not allowed.



The product conforms to RoHS. It complies with the directive 2015/863/EU for Reduction of Hazardous Substances in electrical and electronic equipment.

**Quality Management
System**
DIN EN ISO 9001



Recycling:

At the end of its useful life, you can send us this device for professional disposal. You can find more information about this on our website at www.votronic.de/recycling

Delivery Scope

- 1 Switch Panel 4 S 12/24
- 4 Fastening Screws
- 1 Installation and Operating Manual
- 1 Drilling jig

Available Accessories

Pictograph film (internationally intelligible marking pattern, transparent, self-adhesive, punched)
Size of the pictographs 11 x 8 mm, Order No. 2112

Subject to misprints, errors and technical modification without notice.

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