



Installation and user manual
Windscreen wiper controller



Windscreen wiper controller
WPANEL

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101002.01

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Safety

Warning indications

Where applicable, the following warning indications are used in this manual in connection with safety:

DanGer

Indicates that great potential danger exists that can lead to serious injury or death.

Warning

Indicates that a potential danger that can lead to injury exists.

caution

Indicates that the usage procedures, actions etc. concerned can result in serious damage to or destruction of the engine. Some CAUTION indications also advise that a potential danger exists that can lead to serious injury or death.

Note

Emphasises important procedures, circumstances etc.

Warning

This product should only be installed and maintained by qualified personnel who have read and understood the instructions and precautions in this manual.

Failure to follow the instructions in this manual may result in serious injury or property damage.

The manufacturer shall not be liable for any damages resulting from improper installation or maintenance by unqualified personnel.

Warning

This product should only be operated by persons who have read and understood the instructions and precautions in this manual. Failure to follow the instructions in this manual may result in serious injury or property damage. The manufacturer shall not be liable for any damages resulting from improper operation.

Share these safety instructions with all users.

General rules and laws concerning safety and accident prevention must always be observed.

Introduction

Using this windscreen wiper controller, a maximum of 5 wipers can be synchronised at low and high speed as well as in interval settings. The windshield wiper controller is also equipped with an automatic wipe/wash function. A maximum of 3 rain sensors can also be optionally connected.

The windshield wiper controller consists of a controller unit and a 6-switch panel to be built in. The controller unit is suitable for both 12 and 24 volts. Each output can have a maximum load of 120 W and is protected against overloading.

The windshield wiper motors to be used must have 1 or 2 wipe speeds and an automatic park setting.

Installation

Controller unit

Mount the controller unit as close as possible to the wiper motors. This means the wiring to the motors can be short. Mount the controller unit on a DIN rail TS35 (see p. 30)

Switches

Place the switches where they are easy for the user to operate. Install the function switch and one (1) on-off switch for each wiper motor.

The switches are watertight and fitted with a gasket.

The switches can be built directly into an instrument panel, although the panel supplied can also be used. If not all switches are needed when the panel provided is used, the holes can be covered with the blind plates provided. The build-in panels do not have a gasket. Using the template provided, make a hole in the instrument panel.

Connections

See the connection diagram on p.27.

Current

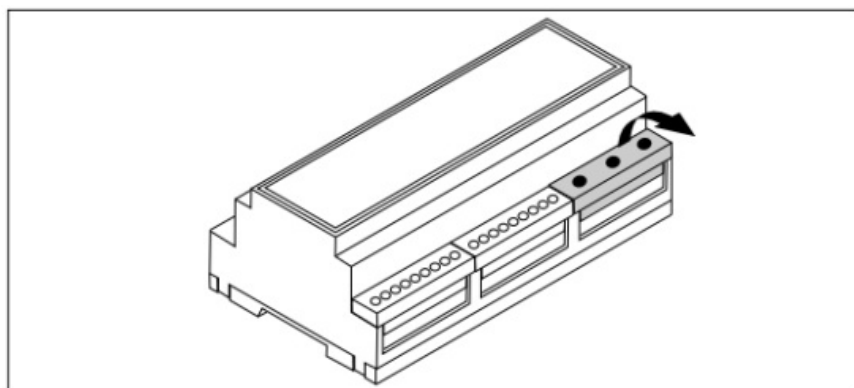
The controller unit is suitable for both 12 and 24 volts DC.

⚠ Note!

The current for which the wiper motors are suitable must correspond to the onboard current (12 or 24 V).

The plus cable of the controller unit must include a main fuse and a switch. Use a smaller fuse if applicable, appropriate for the total maximum current of the 5 wiper motors.

Use connecting wires with a sufficiently large diameter. See the connection diagram for the recommended minimum wire diameter. Connect the current to the cable spades provided (ø 5 mm).



Wiper motors

⚠ Note!

Use only wiper motors of the same type; wiper motors must be equipped with an automatic park setting.

The wiper motors used must have 2 speeds to be able to use both low and high speeds. For example, VETUS type RWS and HDMC.

VETUS type ORW is not suitable.

Connect the wiper motors to the controller unit as indicated in the diagram. Use connecting wires with a sufficiently large diameter. See the connection diagram on p. 27 for the recommended wire diameter.

Switches

Connect the switches to the controller unit as indicated in the diagram. Use connecting wires with a diameter as indicated in the diagram.

Washer

A water pump or magnetic valve can be connected to the WASHER connection for a washer.

⚠ Note!

The current for which the water pump or magnetic valve are suitable must correspond to the onboard current (12 or 24 V).

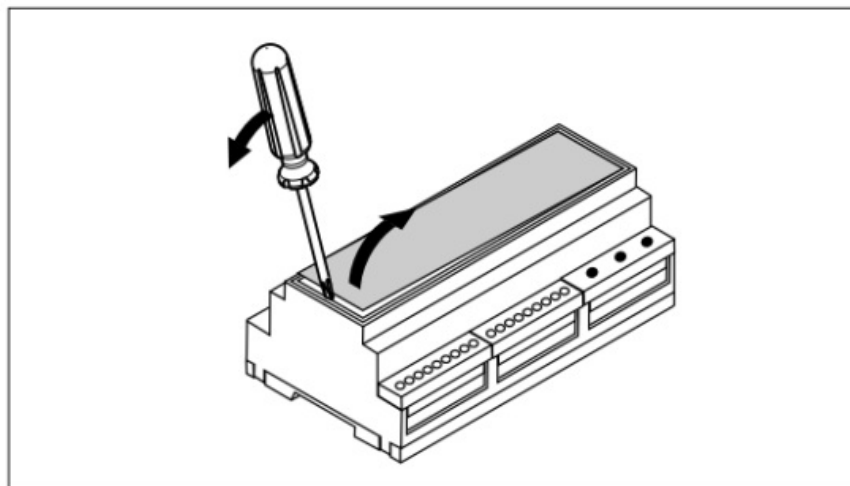
Rain sensors

Consult the manual provided with the rain sensors to determine how to install them.

Safeguards

Each wiper motor is individually protected by a fuse. The washer pump is also protected by a fuse.

These fuses are under the lid of the controller unit (see diagram below on how to remove lid).



See 'Technical data' for fuse values.

Operation

Wiper switch

Each wiper (windshield wiper motor) has its own switch. The switch is used to turn the relevant wiper on or off. When a wiper is switched on, it follows the selected programme.

SPEED function switch

Whenever the SPEED switch is pressed, the next wipe programme is selected.

The available programmes are:

1. interval 11 sec,
2. interval 9 sec,
3. interval 7 sec,
4. interval 5 sec,
5. interval 3 sec,
6. continuous low speed,
7. continuous high speed.

Once programme 7 is reached, pressing the switch selects programme 1 again. After a different programme is selected, the status lamp indicates the new setting by means of a series of flashes (1 to 7); this series is repeated once. See p. 26 'Using the SPEED button'.


On first use and each time after the current is switched off, the windshield wipers will

wipe at low speed.


If the current has not been switched off, the wipers will wipe at the last interval setting or speed selected, unless the last setting was the highest speed.

The wiper motors can be operated automatically if rain sensors have been installed; consult the manual supplied with the rain sensors.

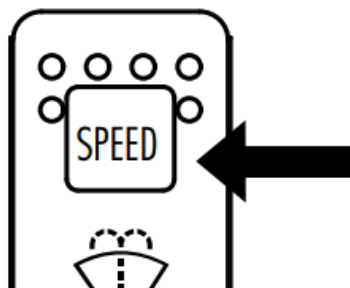
Windscreen spray switch

Pressing the  switch once will run the wipe/wash programme completely automatically:

- 3 seconds of spraying
- at least 3 wipes with simultaneous spraying,
- 3 final wipes.

Pressing the  switch and keeping it pressed will maintain wiping with simultaneous spraying.

All wipers will wipe, regardless of the position of the wiper switch.



Status light

The status light of the function switch indicates the wiper controller status:

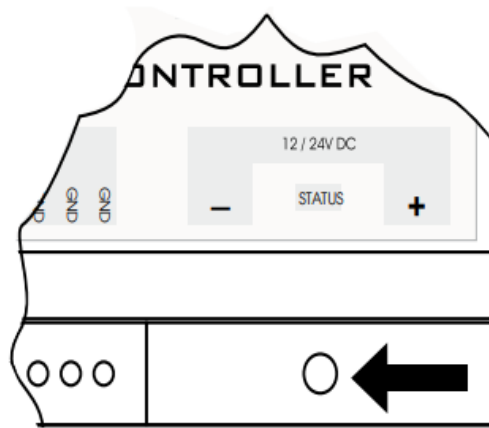
On: wiper controller is active,

Off: wiper controller is not active, Fast flashing: current is too low or there is an internal fault Two series of flashes: selected programme indicated.

This is shown if a different programme is set and after the wiper controller is switched on.

Status led

The status LED on the controller unit (between the + and – battery terminals) shows the status of the wiper controller:



Green: the wiper controller is active,
 Flashing green: the current is too low,
 Red: internal fault,
 Off: the wiper controller is not active.

Technical data

Current

12 or 24 V DC

Current received *): approx. 10 mA

Number of wipers: 5 max.

Maximum wiper motor output: 120 watts

Internal fuses

Wiper motors: 10 A (5 x)

Wiper pump or valve: 5 A (1 x)

Switches

Wiper switch:

Function: ON – OFF (1 x making contact)

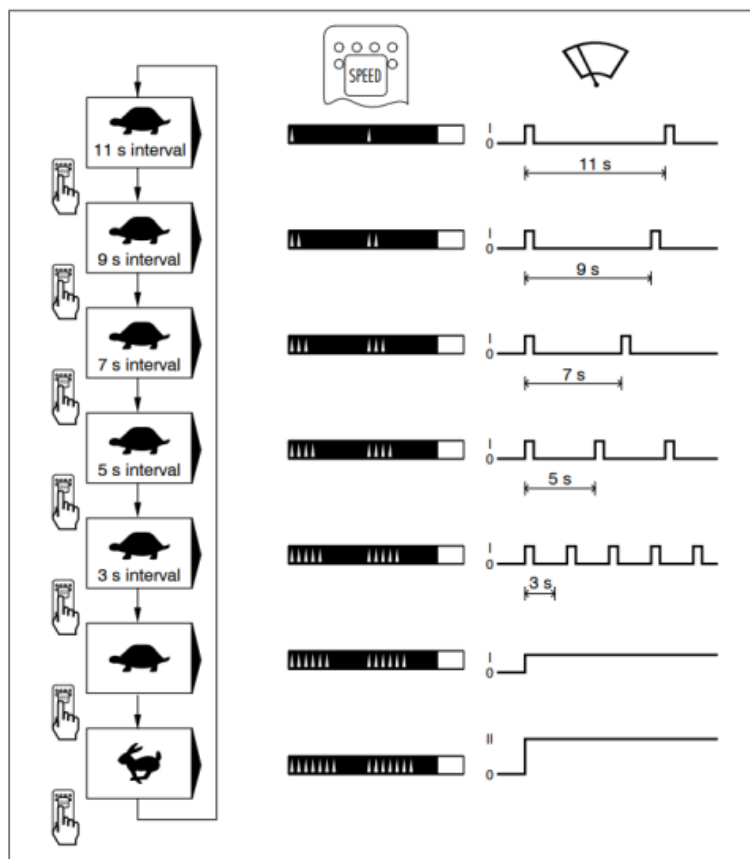
Function switch:

Function: MOM OFF – MOM

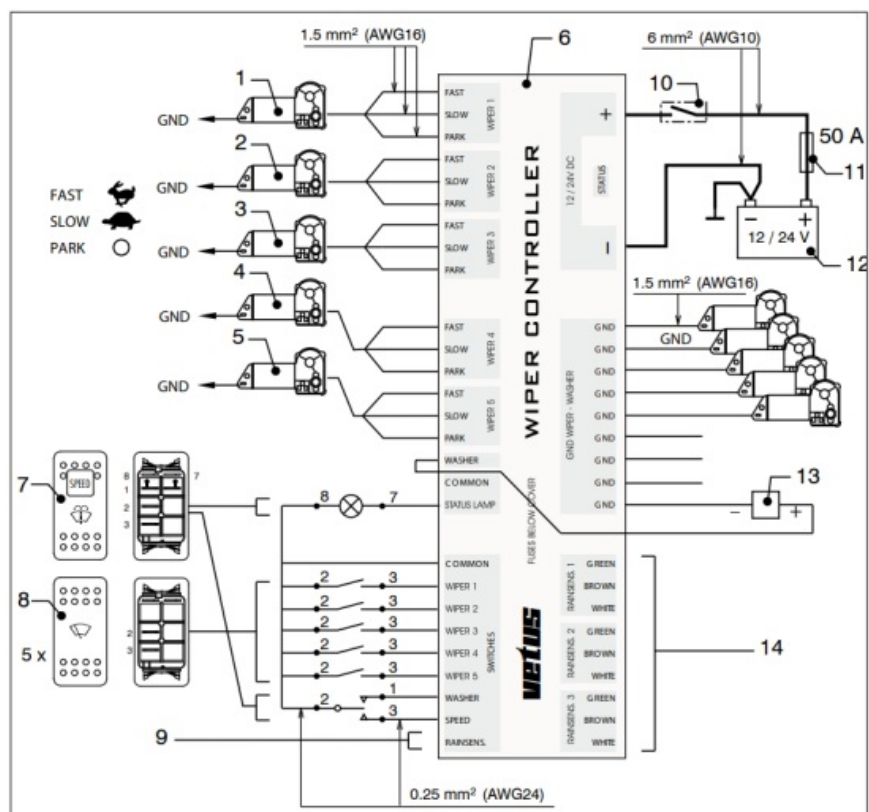
(2 x making contact, reverting to middle position) + lamp

*) Note: Controller unit only, not including current used by wiper motors.

Using the SPEED button



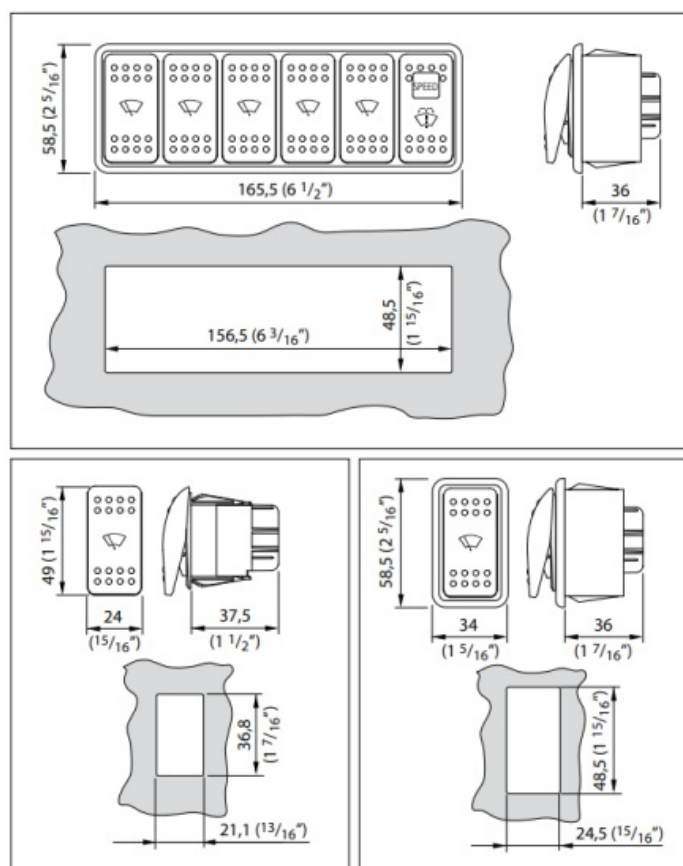
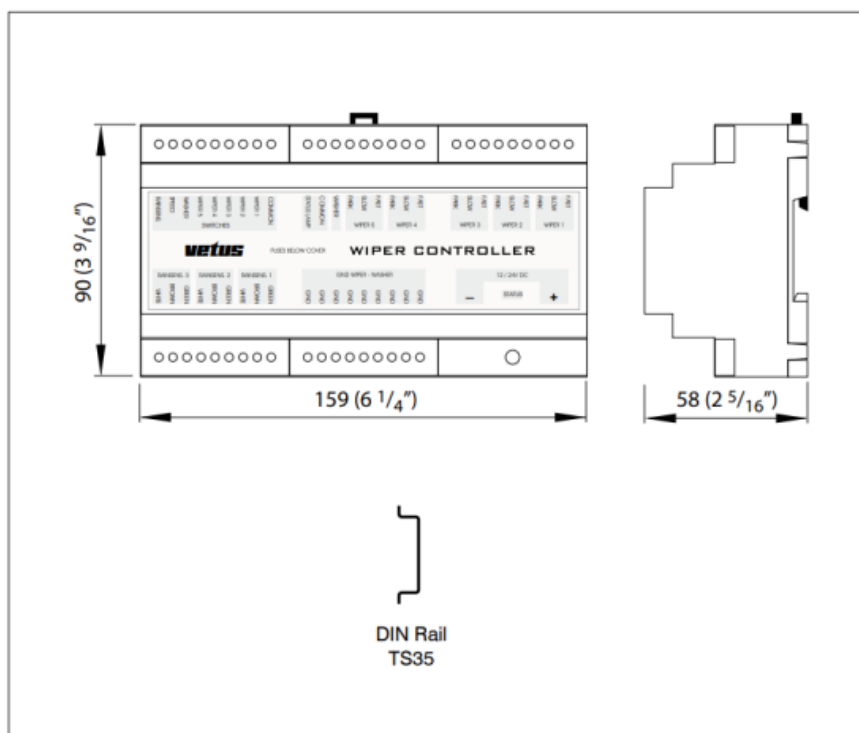
Connection diagram



	Connections
FAST:	High Speed

SLOW:	Low Speed
PARK:	Park setting
GND:	Ground
1	Wiper motor 1
2	Wiper motor 2
3	Wiper motor 3
4	Wiper motor 4
5	Wiper motor 5
6	Controller unit
7	Function switch (SPEED – WASHER)
8	Wiper switch
9	Connection for rain sensor switch (optional)
10	Main switch
11	Fuse
12	Battery
13	Water pump or valve for washer
14	Connections for rain sensors (optional)


Overall dimensions



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Printed in the Netherlands

Documents / Resources





[vetus WPANEL Windscreen Wiper Controller \[pdf\]](#) Instruction Manual

WPANEL Windscreen Wiper Controller, WPANEL, Windscreen Wiper Controller, Wiper Controller

References

- [User Manual](#)

 vetus, Windscreen Wiper Controller, Wiper Controller, WPANEL, WPANEL Windscreen Wiper Controller

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