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vetus CANVXCSP Push Button Control Interface Instruction Manual

Installationshandbuch
BOWPRO Druckknopf-Steuerungsschnittstelle

Contents

Installation manual

BOWPRO push-button control interface CANVXCSP

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021003.11

1 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.

Symbols

Indicates that the relevant procedure must be carried out.

Indicates that a particular action is forbidden.

Share these safety instructions with all users.

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

2 Introduction

This manual provides guidelines for the installation of the VETUS bow and stern thruster interface CANVXCSP. With the CANVXCSP, pushbuttons (momentary switch, NO contact) for operating a bow or stern thruster, for example via the buttons on an engine control lever, can be connected to the VETUS CAN-bus system. Pressing a button activates maximum thrust.

The quality of the installation is decisive for the proper functioning of the system. Almost all faults can be traced back to errors or inaccuracies during installation. It is therefore imperative that the steps given in the installation instructions are followed in full during the installation process and checked afterward.

Alterations made to the bow thruster by the user will void any liability on the part of the manufacturer for any damages that may result.

- During use ensure the correct battery voltage is available.

WARNING

Changing over the plus (+) and minus (-) connections will cause irreparable damage to the installation .

WARNING

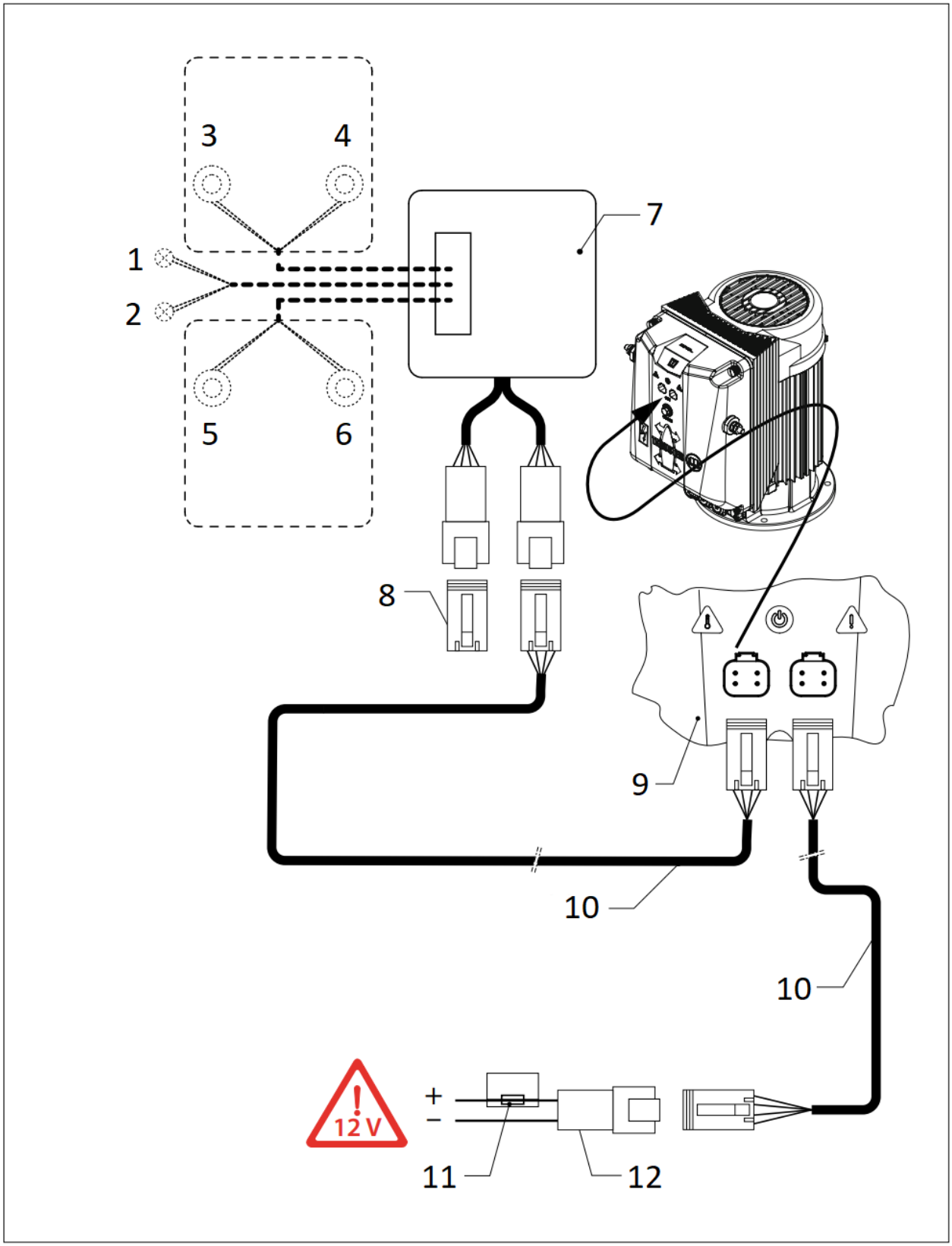
Never work on the electrical system while it is energized .

3 Installation

The CANVXCSP interface can be mounted out of sight in a not permanently accessible, ventilated, location.

3 .1 Connecting the CAN bus cables

Connect the CAN bus (V-CAN) cables as shown in the following example diagram.



1. (1) LED BLUE
2. (2) LED RED
3. BOW PB-1
4. BOW PB-2
5. STERN PB-1
6. STERN PB-2
7. CANVXCSP interface
8. Terminator

9. Connection box thruster
10. Connection cable
11. Control voltage fuse
12. CAN-bus supply

☞ NOTE The CAN bus power supply must always be connected to 12 Volt

Refer to the appropriate bow or stern thruster installation manual for detailed CAN-BUS diagrams and configuration of a bow or stern thruster.

3.2 Connecting push buttons and LEDs

☞ NOTE

Refer to the installation diagrams on page 49 and 50

The supplied wiring harness is suitable for controlling a bow thruster. For installation of a stern thruster, the wiring harness must be extended.

Connecting a bow thruster

The wiring harness has 8 wires that connect to connector pin 1, 2, 3, 10, 11, 12, 13 and 14.
– Use the “BOW PB-1” labelled cable, 2-wire: pin 2 (brown) and 10 (white) to connect button 1.
– Use the “BOW PB-2” labelled cable, 2-wire: pin 3 (yellow) and 11 (green) to connect button 2.
– Use the “BLUE LED” labelled cable, 2-wire: pin 1(-)/(grey) and 13(+)/(pink) to connect the blue status LED.
– Use the “RED LED” labelled cable, 2wire: pin 12(-)/(red) and 14(+)/ (blue) to connect the red error/warning LED.

Connecting a stern thruster

To connect push buttons for stern thruster control, use the following parts:

– 1 x 4-core cable.
– 4 x connection pin AT62-201-16141-22.

Attach the connection pins to one side of the 4-core cable. Use the appropriate tools to do this.

Remove the white pins of connection 6, 7, 8 and 9 from the connector. Insert the wires of the star cable harness into the now free pins.

- Use pins 6 and 8 for connecting “STERN PB-1”, button 1.
- Use pins 7 and 9 to connect “STERN PB-2”, button 2.

3.3 Specifications

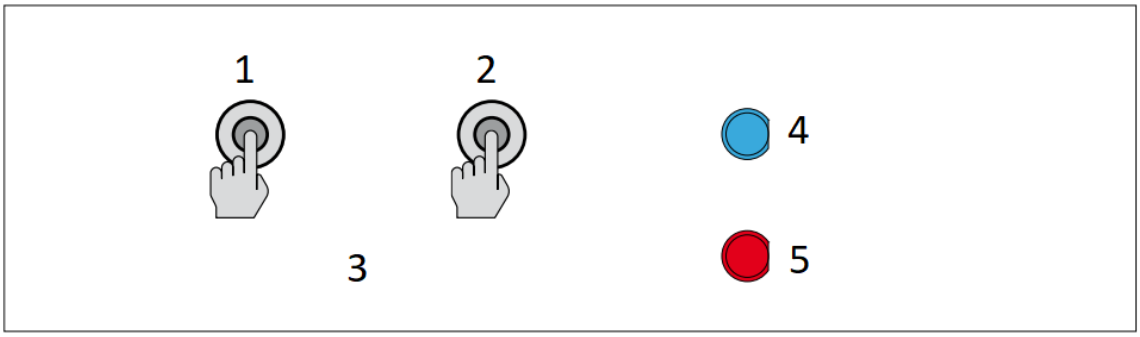
LEDs	5 V, 40 mA (max)
Push button type	Normally open (NO)

4 Checking/test running and configuring the control panels

4.1 General

Check whether the system is connected correctly. Then switch on the CAN-bus supply voltage and the supply voltage of the bow and/or stern thruster.

4.2 Switch on panel



1. BOW PB-1
2. BOW PB-2
3. ON/OFF
4. (1) BLUE
5. (2) RED

- Press both buttons, BOW PB-1 and BOW PB-2, simultaneously.
  The blue LED will flash and you will hear a repeating signal, di-didi (. . .).
- Within 6 seconds the buttons must be pressed again. The blue led will now remain on; the buzzer confirms with the signal, dahdidah (- . -), that the panel is ready for use.

If a second panel is connected, the LED on the inactive panel will flash (two short blue flashes every second, heartbeat).

4.3 Taking over panel control

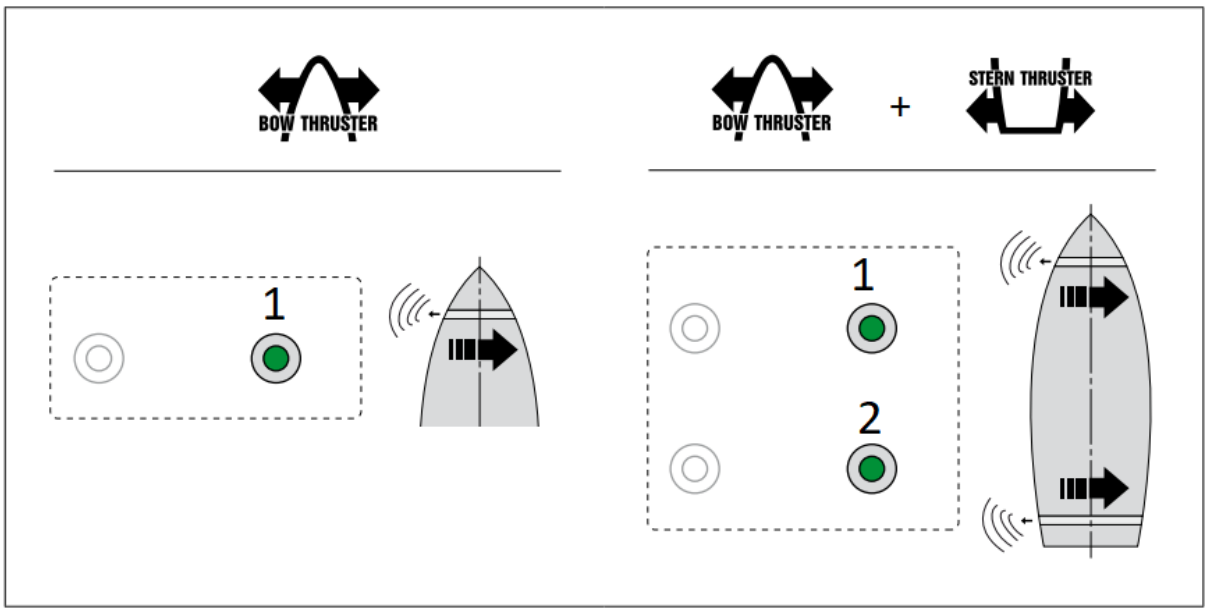
To transfer control from the active panel to a non-active panel, follow the instructions in paragraph 4.1.

4.4 Switch off panel

- Hold down both buttons, BOW PB-1 and BOW PB-2, until all LEDs are off and you hear the signal, di-di-di-dah-dah (. . . – –).
  The control panel is switched off.
- When disembarking, switch off the battery master switch.

4.5 Checking thrust direction

The direction of movement of the boat must correspond to the direction of movement of the respective push button. You must check this for EVERY panel! Do this carefully and in a safe location.



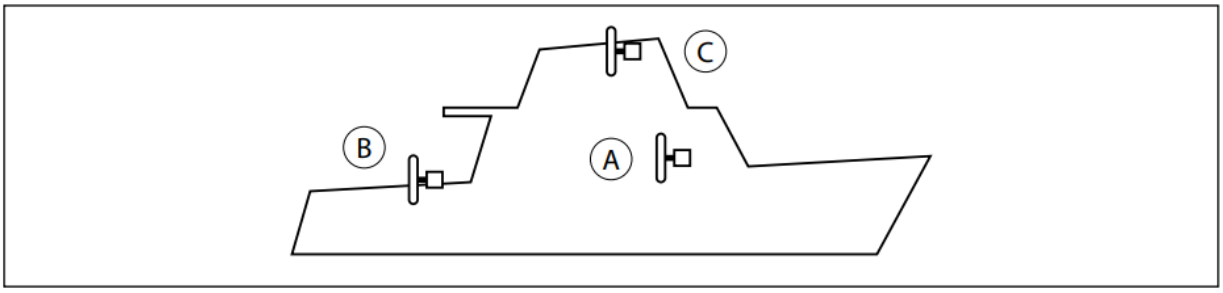
1. BOW PB-2
2. STERN PB-2

WARNING

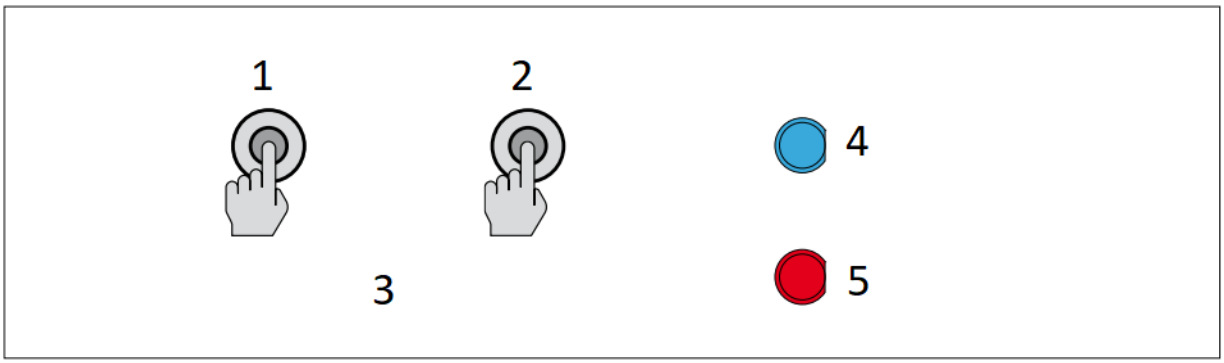
If the movement of the boat is opposite to the direction of movement corresponding to the respective push button, this must be corrected by changing the wiring of BOW PB-1 and BOW PB-2 (STERN PB-1 and STERN PB-2).

4.6 Configuration of multiple control panels

Up to four control panels can be configured (Group Code A, B, C or D). Use one group code per control panel.

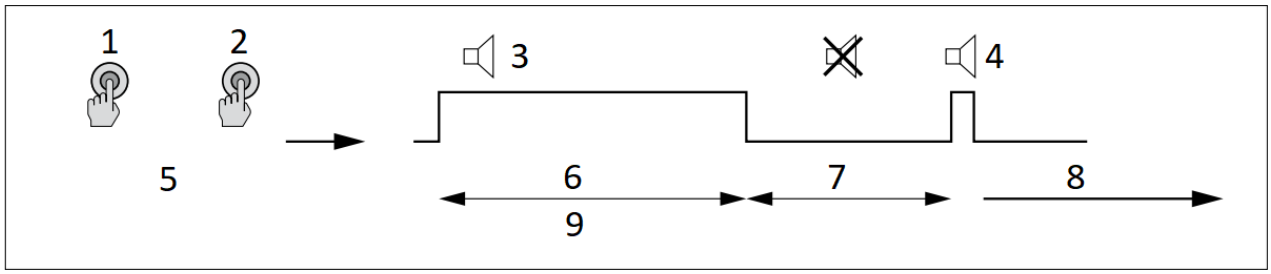


On ANY additional panel, perform the following actions in the order indicated:



1. BOW PB-1
2. BOW PB-2
3. ON/OFF
4. (1) BLUE
5. (2) RED

Switch off the panel, see 4.4, and wait 5 seconds before starting the configuration procedure below.



1. BOW PB-1
2. BOW PB-2
3. dididididididid (. . . . .)
4. dididididah (. . . . –)
5. 10 seconds
6. 6 seconds
7. 4 seconds
8. Configuration mode
9. (1) BLUE, flashing

1. Put the panel in configuration mode.

- Press and hold both buttons, BOW PB-1 and BOW PB-2, for 10 seconds.

During the first 6 seconds, LED (1) flashes blue and the buzzer will continuously signal a dididididid ….. (. . . .). Keep pressing the “ON / OFF” button. After 10 seconds the buzzer sounds the signal dididididah (. . . – -). Release the buttons.

2. Press both buttons BOW PB-1 and BOW PB-2 twice simultaneously.

Led (1) flashes blue and you hear the signal, di-dah-di (. – .). The panel is now in configuration mode.

3. Short press BOW PB-1 or BOW PB-2 to set the control panel group code. Repeat until the desired group is selected.

The colours of the LEDs indicate the group code of the control panel.

Group	LEDs
1 (A)	(1) blue, flashing
2 (B)	(2) red, flashing
3 (C)	(1) blue and (2) red, flashing alternately
4 (D)	(1) blue and (2) red, flashing simultaneously

4. Press both BOW PB-1 and BOW PB-2 buttons once, simultaneously, to confirm the setting.

4.7 Restore factory settings

Switch off the control panel to be restored (see 4.4) and perform the following actions:

- Press and hold both buttons BOW PB-1 and BOW PB-2 for 30 sec.

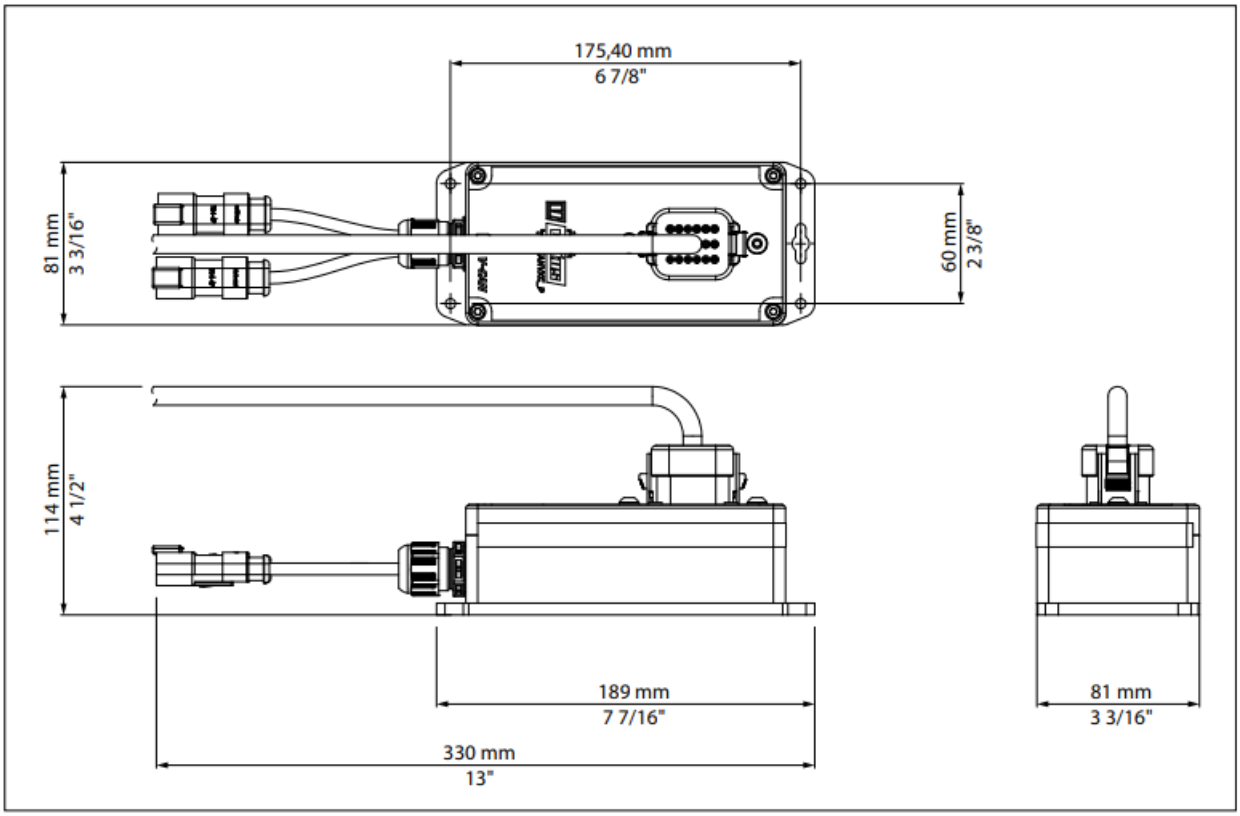
After 15 sec, the red LED starts flashing. After 30 sec, the blue LED comes on.

- Release both buttons.
- Press both buttons BOW PB-1 and BOW PB-2 once, simultaneously, to confirm the recovery process.

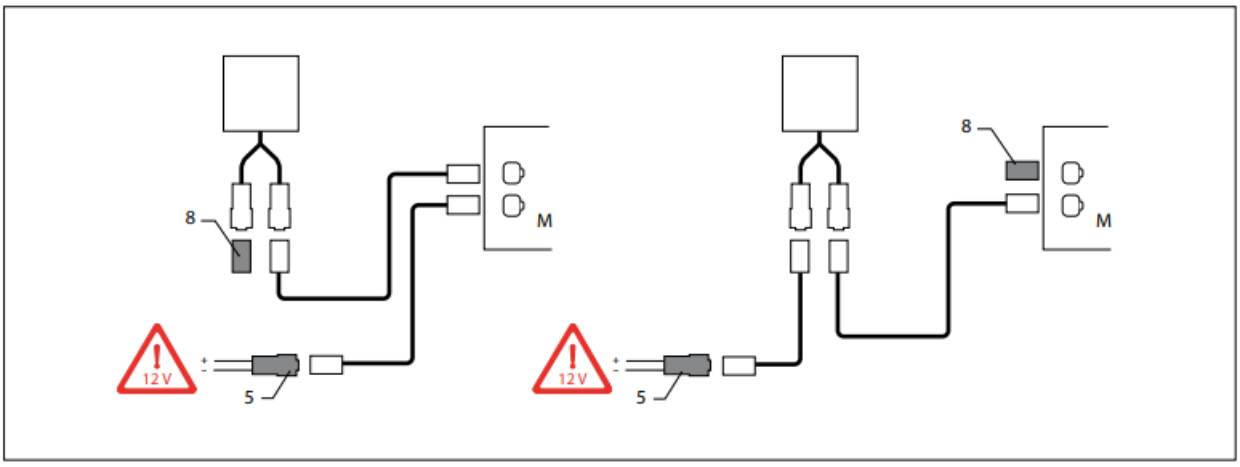
4.8 Meaning LED indicator lights

BLUE LED	RED LED	BUZZER	
Blinks (for 6s)		(.) (for 6s)	Childlock after the first push
ON		1x (-.-)	Device is enabled, Bow and Stern thrusters are ready
Blinks double			Device is inactive, thruster is active
	Blinks fast	1x (.-..-)	Bow Thruster is overheated
	OFF	1x (..)	Bow Thruster was overheated
	Blinks fast	1x (.-..-)	Stern Thruster is overheated
	OFF	1x (..)	Stern Thruster was overheated
	Blinks	1x (.-..-)	Bow Thruster is overloaded
	OFF	1x (..)	Bow Thruster was overloaded
	Blinks	1x (.-..-)	Stern Thruster is overloaded
	OFF	1x (..)	Stern Thruster was overloaded
	Blinks double	1x (.-..-)	Bow Thruster is limiting
	OFF	1x (..)	Bow Thruster was limiting
	Blinks double	1x (.-..-)	Stern Thruster is limiting
	OFF	1x (..)	Stern Thruster was limiting
Blinks fast	Blinks	1x (.-..-)	Bow Thruster supply is low
Blinks fast	Blinks	1x (.-..-)	Stern Thruster supply is low
	ON		Disconnected from the network

5 Principal dimensions



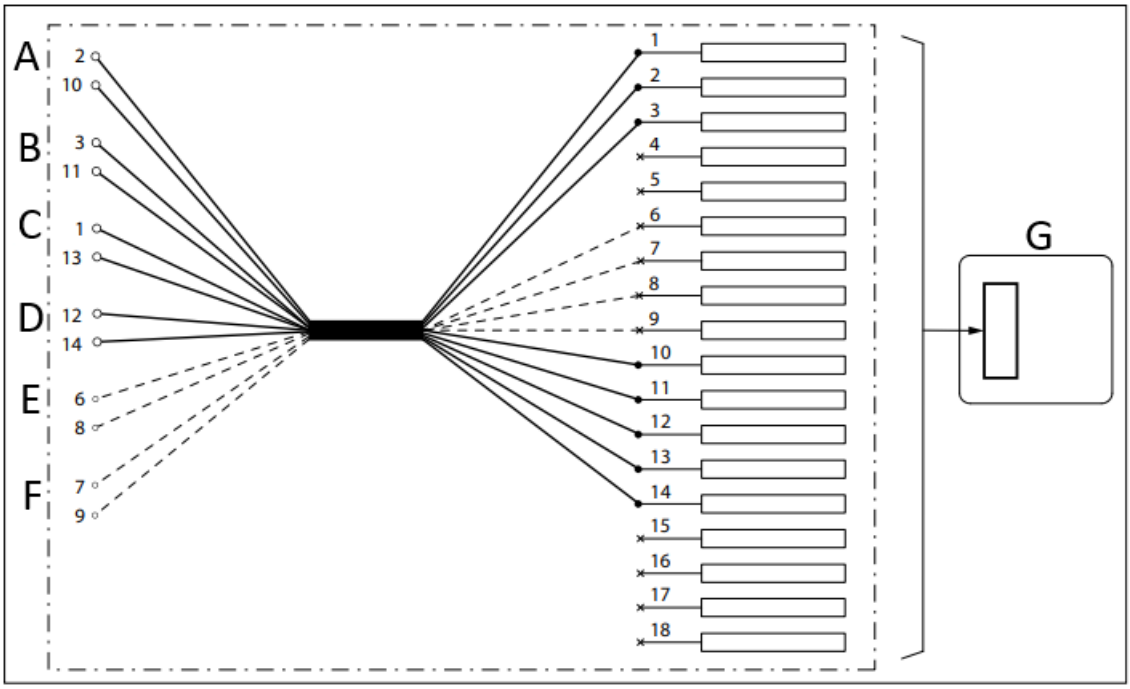
6 Wiring diagrams



NOTE

The CAN bus is a chain to which the bow thruster and the panels are connected.
At one end of the chain, the power supply with integrated terminating resistor (5) must be connected and the terminator (8) must be connected at the other end!

7 Wiring harness



A. BOW PB-1
B. BOW PB-2
C. (1) BLUE LED
D. (2) RED LED
E. STERN PB-1
F. STERN PB-2
G. CANVXCSP

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Documents / Resources

	vetus CANVXCSP Push Button Control Interface [pdf] Instruction Manual CANVXCSP Push Button Control Interface, CANVXCSP, Push Button Control Interface, Button Control Interface, Control Interface, Interface

References

- Making boating easy and carefree all over the world - VETUS

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