CANvu Display

Installation Instructions

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1. CANvu Display Mounting

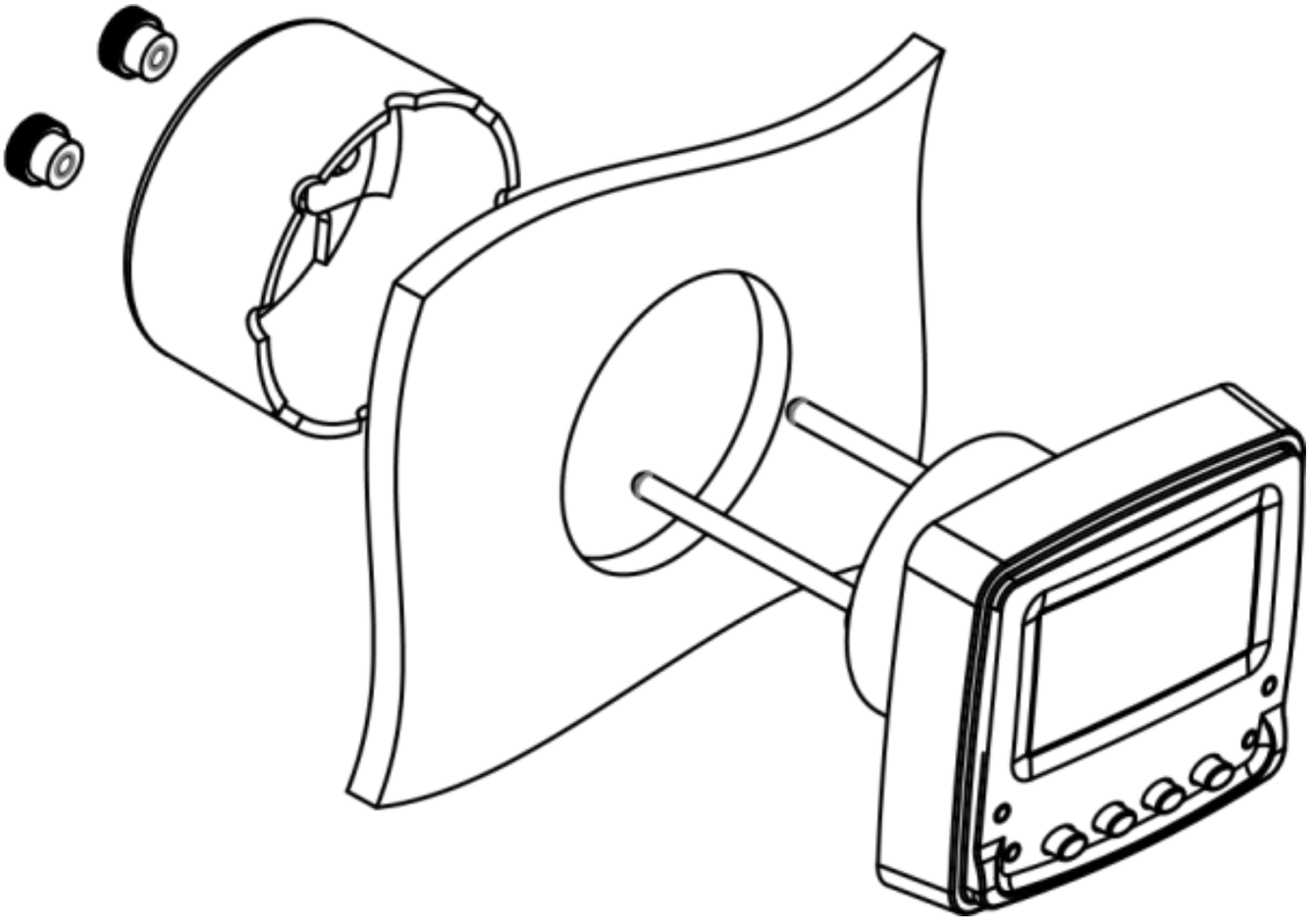
Units are designed to be mounted onto a bulkhead, dashboard, or panel. The method is described below. The only required components are the mounting bracket and hardware.

Instructions:

- Allow adequate clearance behind the display for cable connection (to ensure that the cables are not unduly stressed), and for ventilation. Leave sufficient cable so that the unit may be removed for servicing.
- Screw the threaded studs into the rear case.
- Carefully cut out the mounting hole, templates are available upon request if required
- Place the CANvu Display in position, use the mounting bracket and™ thumb nuts to secure the units. The thumb nuts should only be hand tight.
- In the correct order connect the Deutsch mating connector harness into the housing, ensuring it is fully seated

***WARNING**: Do not over tighten the studs/thumb nuts and don't use metal screws as they may damage the unit and void the warranty.*

Mounting templates can be downloaded from our website at www.cantronik.com/templates



Typical mounting method

2. Connecting the CANvu Display

The CANvu range of displays should be installed and setup in accordance to this manual by a competent individual who is used to working with electrical systems. Failure to follow these instructions may result in malfunction and in-validate any warranty.

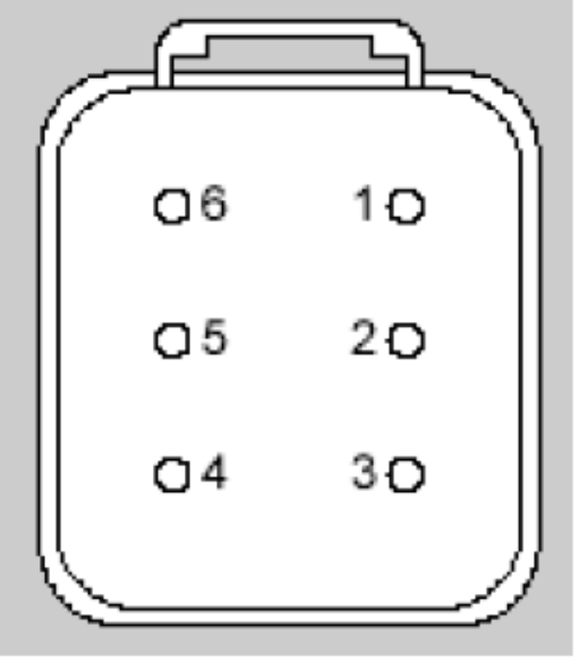
IMPORTANT NOTE

Safety Warning: Please note analogue input voltages should not exceed the supply voltage or damage may occur.

2.1 No power should be present on the harness during connection.
2.2 Connect Harness 1 (Primary) note correct orientation of connector. Ensure it is fully mated so the connector latches into place
2.3 Then connect Harness 2 (Secondary) note correct orientation of connector. Ensure it is fully mated so the connector latches into place when using dual & triple harness models.
2.4 The USB ports should not be used for charging external equipment such as mobile phones.
Please refer to the following images of CANvu 355 & CANvu 700 for harness connection order.

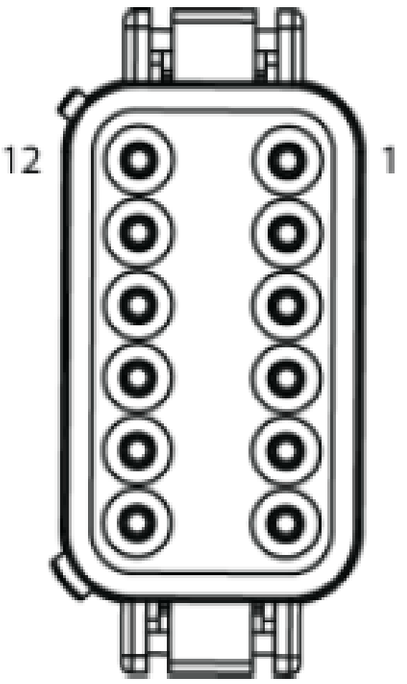
2.1 CANvu 230

CONNECTOR	
1	Ground
2	Power
3	CAN-H
4	CAN-L
5	Relay/Digital Out
6	Analogue In

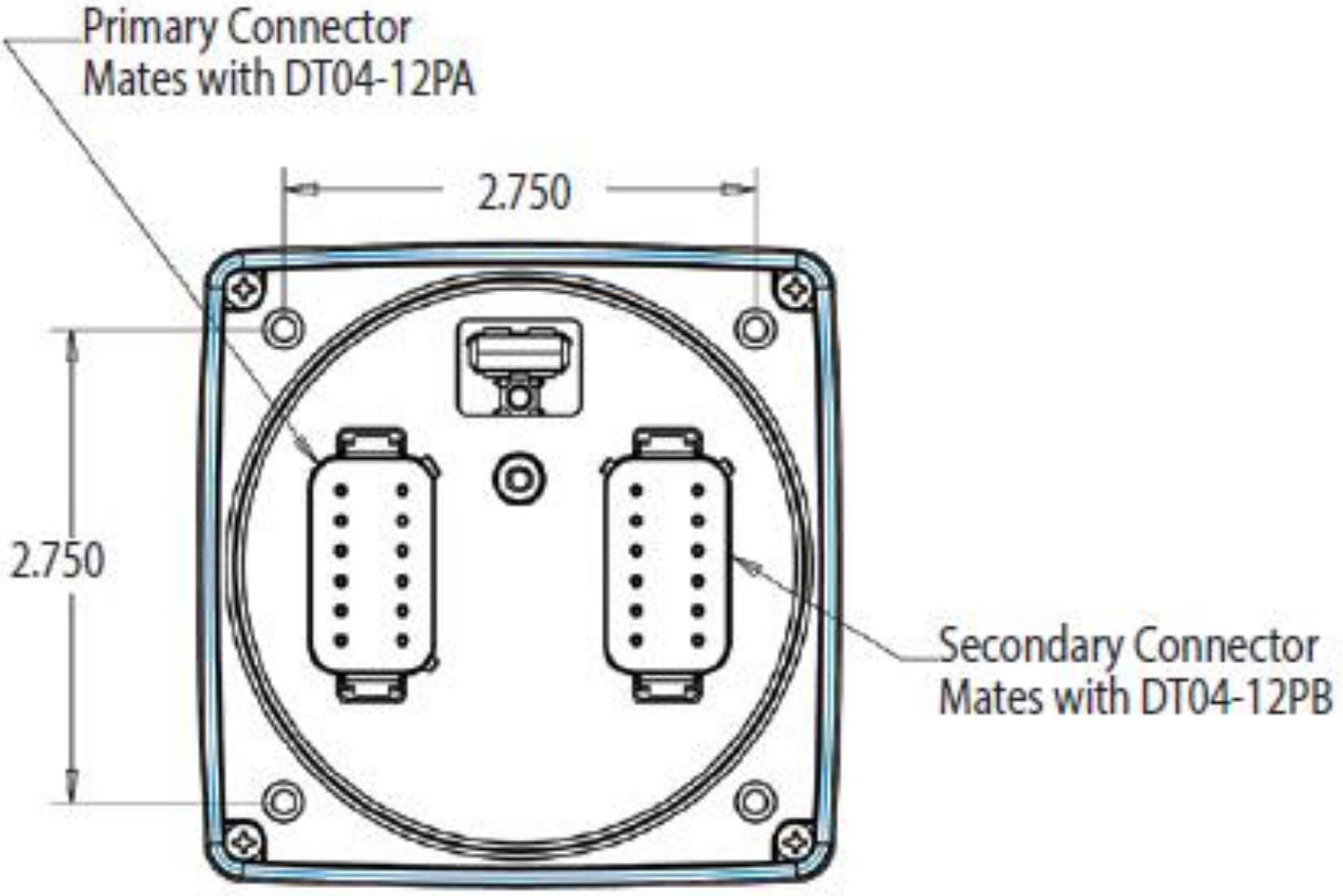


2.2 CANvu 260/261

CONNECTOR	
1	Power -ve
2	Power +ve
3	RS232 TX (+)
4	RS232 TX (-)
5	RS232 RX (-)
6	RS232 RX (+)
7	CAN LO
8	CAN HI
9	J1708 / J1587A
10	J1708 / J1587B
11	Switched Output (261 only)
12	Not used

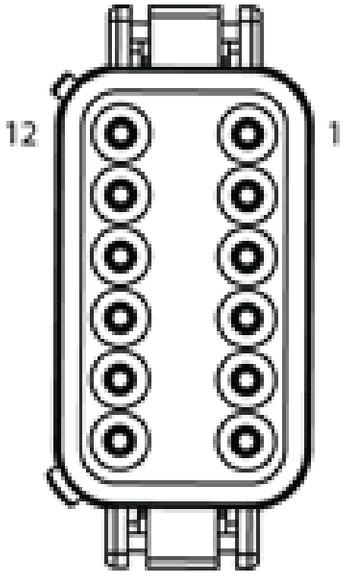


2.3 CANvu 355 & 355 LP

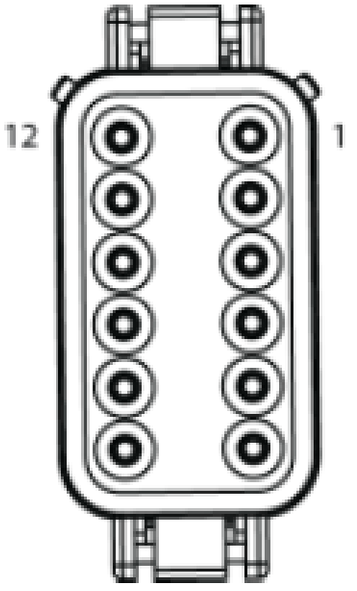


2.3 CANvu 355 & 355 LP (continued)

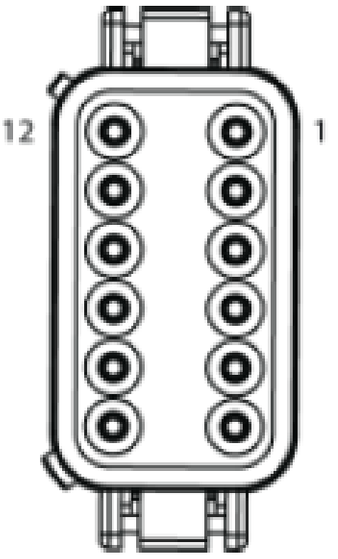
PRIMARY CONNECTOR	
1	Ground
2	Power (10-32V DC) Supply should be protected by 500mA – Rated circuit breaker/fuse
3	Relay/Solenoid Output 1
4	Relay/Solenoid Output 2
5	Isolated CAN Supply (-)
6	Isolated CAN Supply (+)
7	Isolated CAN Data H
8	Isolated CAN Data L
9	Relay/Solenoid Output 3
10	Relay/Solenoid Output 4
11	Primary CAN Data L
12	Primary CAN Data H



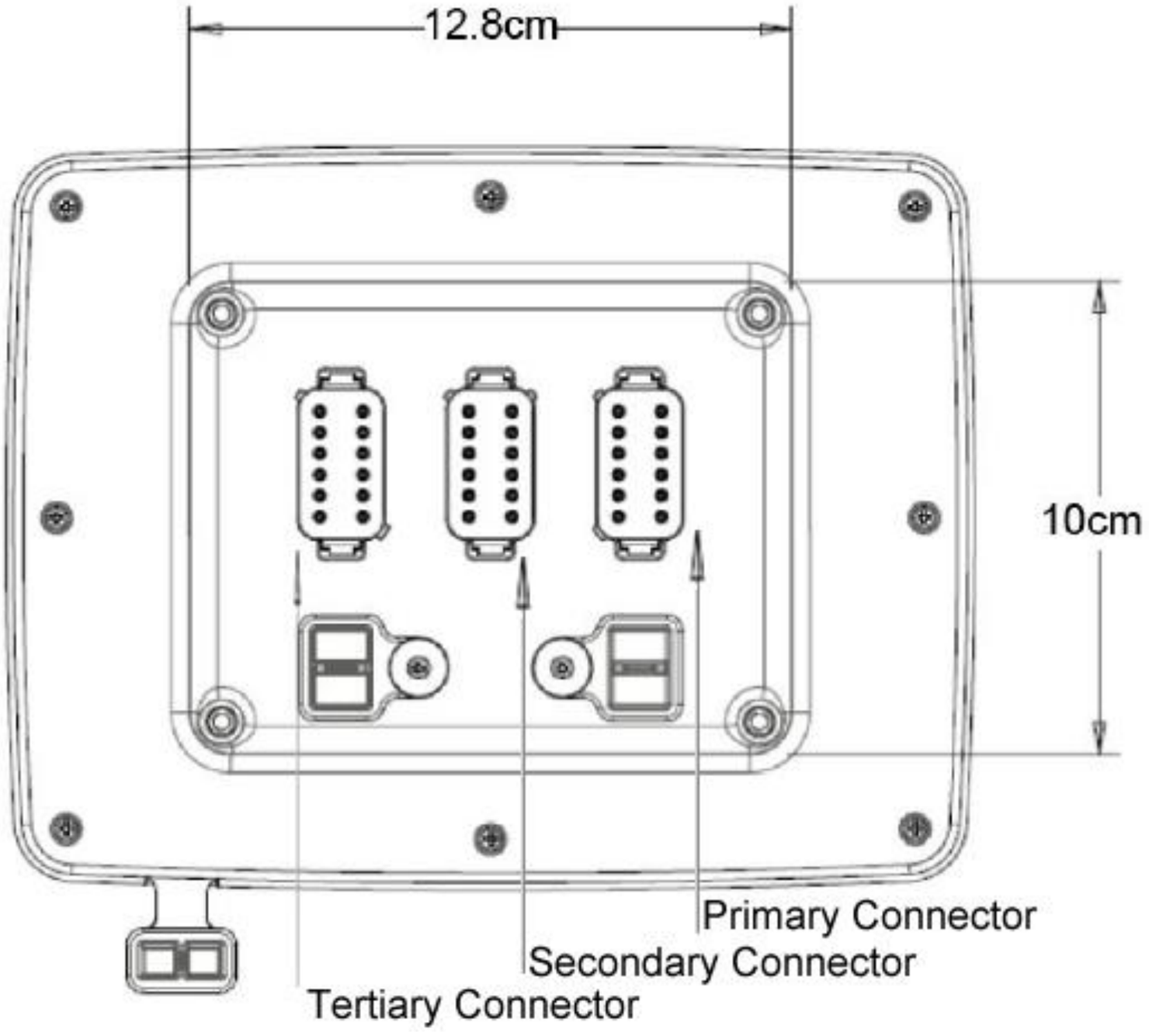
2.3 CANvu 355 & 355 LP (continued)

SECONDARY CONNECTOR		
1	Sensor 1 Analog Input	
2	Sensor 2 Analog Input	
3	Sensor 3 Analog Input	
4	Sensor 4 Analog Input	
5	Sensor 5 Analog Input	
6	Sensor 6 Analog Input	
7	Sensor 7 Analog Input	
8	Digital Input/Flow Sensor 1	
9	Digital Input/Flow Sensor 2	
10	Tachometer Input	
11	RS232 Receiver	
12	RS232 Transmit	

2.4 CANvu 355 Lite & 355 Lite LP

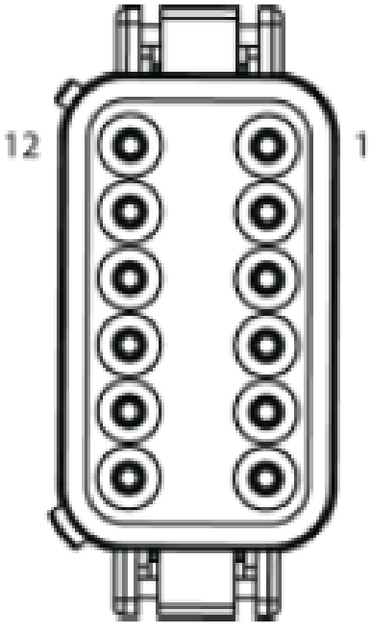
PRIMARY CONNECTOR			
1	Power -	Ground	
2	Power +	Power (10-32v DC) Supply should be protected by 500mA – rated circuit breaker/fuse	
3	RS232TX	RS232 Transmit	
4	GND	Ground	
5	GND	Ground	
6	RS232RX	RS232 Receive	
7	CAN L	CAN Data L	
8	CAN H	CAN Data H	
9	Not used	No connection	
10	Not used	No connection	
11	Not used	No connection	
12	Not used	No connection	

2.5 CANvu 700

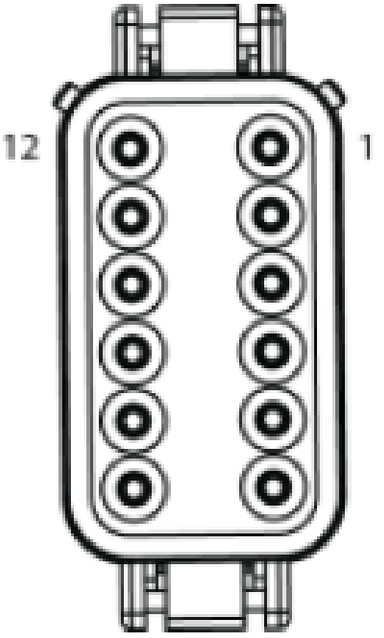

12.8cm
10cm
Primary Connector
Secondary Connector
Tertiary Connector

2.5 CANvu 700 (continued)

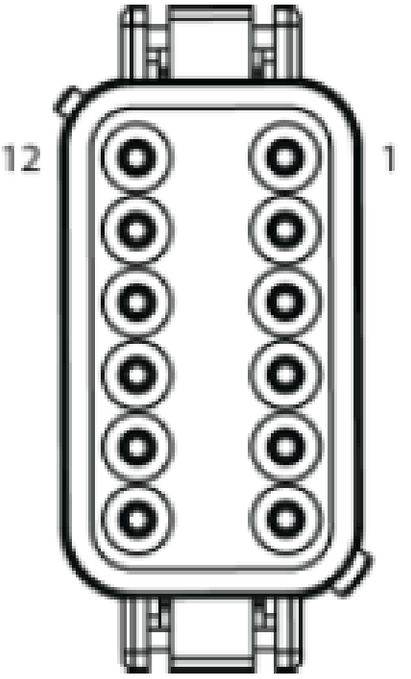
PRIMARY CONNECTOR		
1	Ground	
2	Power (10-32V DC) Supply should be protected by 500mA – Rated circuit breaker/fuse	
3	Relay/Solenoid Output 1	
4	Relay/Solenoid Output 2	
5	Isolated CAN Supply (-)	
6	Isolated CAN Supply (+)	
7	Isolated CAN Data H	
8	Isolated CAN Data L	
9	Relay/Solenoid Output 3	
10	Relay/Solenoid Output 4	
11	Primary CAN Data L	
12	Primary CAN Data H	



2.5 CANvu 700 (continued)

SECONDARY CONNECTOR		
1	Sensor 1 Analog Input	
2	Sensor 2 Analog Input	
3	Sensor 3 Analog Input	
4	Sensor 4 Analog Input	
5	Sensor 5 Analog Input	
6	Sensor 6 Analog Input	
7	Sensor 7 Analog Input	
8	Digital Input/Flow Sensor 1	
9	Digital Input/Flow Sensor 2	
10	Tachometer Input	
11	RS232 Receiver	
12	RS232 Transmit	

2.5 CANvu 700 (continued)

TERTIARY CONNECTOR		
1	Sensor 8 Analog Input	
2	Sensor 9 Analog Input	
3	Sensor 10 Analog Input	
4	Sensor 11 Analog Input	
5	Sensor 12 Analog Input	
6	Sensor 13 Analog Input	
7	Sensor 14 Analog Input	
8	Digital Input/Flow Sensor 3	
9	Relay/Solenoid Output 5	
10	Relay/Solenoid Output 6	
11	Relay/Solenoid Output 7	
12	Relay/Solenoid Output 8	

3. Connecting to the Network

The range of CANvu displays will operate with a number of CAN network protocols. If you are unsure of which CAN networks are supported, please contact CANtronk for advice.

Please consult relevant network protocol standards to ensure that the unit is connected correctly. Ensure that the power is off during any connection being made and you are observing connecting the device in section 1.

CANtronik can offer support, if you need any further help or guidance on your particular network topography.

4. Maintenance and Troubleshooting

No regular maintenance should be required, except for cleaning the CANvu lens as needed, using a soft, damp cloth. Do not use abrasive materials or solvents.

If you are experiencing operating problems with CANvu Display refer to the following diagnostics:

Problem	Possible solution
Unit does not power up	• Ensure connections to unit are correct. • Ensure power source is present.
Unit fails to display any data	• Ensure connections to unit are correct. • Ensure data source is broadcasting data • Ensure source address in the display matches source data being provided by the engine and/or transmission. • Ensure the backbone is connected and terminating resistors are in place.
Unit displays random data	• Ensure connections to unit are correct. Ensure demo mode is off.

5. Important Safety and Legal Information

Under no circumstances shall CANtronik or any of its subsidiary companies accept liability for any loss of data, income, incidental damage or consequential losses incurred as a result of the use of the product, howsoever caused.

CANtronik operates a policy of continuous improvement. CANtronik reserves the right to alter and improve the CANvu Displays and software without prior notice.

CE EMC Directive 2004/108/EC

This product has been designed to be compliant with this directive. Compliance can only be ensured by correct installation.

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