VEETHREE GROUP

C3i

3.5” COLOUR DISPLAY

Technical data

- 3.5” — 3.5 INCH DISPLAY
- 750 NIT — SUNLIGHT READABLE
- 130° / 110° VIEWING ANGLE
- 320 x 240 — RESOLUTION
- IP 67 — INGRESS PROTECTION
- + 70° / - 40° — OPERATING TEMP
- 1 x RS232 — 1 X RS232
- CAN — 1 X CAN BUS
- 1 X USB PORT

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FORMERLY THE CANVU™ 355 LITE, IS THE LITE VARIANT IN THE RANGE OF 3.5” COMPACT COLOUR CAN BUS DISPLAYS.

The C3i has a 3.5inch colour LCD. One of our most popular displays this Lite variant has reduced I/O capabilities than the standard C3.

The display is available in 4 variants with low profile housing, and increased I/O combinations. It is part of the family of compact, flexible, and rugged CAN bus monitors.

The display is part of the family of compact, flexible, and rugged CAN bus monitors.

Designed for applications with reduced I/O requirements the display can therefore offer cost savings against the full I/O variants in the family of displays. It retains a single CAN input connection, plus a USB port. The display can provide system control functions, alarm functionality, and has configurable data logging capability.

The QVGA colour display can be viewed in full sunlight, the unit is totally sealed and electronically extremely durable.

Using the powerful Freescale iMX 286 ARM processor running Linux, programmers can quickly put together a project using our proprietary software developer's kit (SDK) and the proven Veethree component based library. Application software is able to be rapidly validated on a PC using the PC simulator.

VEETHREE TECHNOLOGIES

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Reliability

Our products continue to be successfully deployed in an enormously diverse range of applications where total reliability is vital.

All products, bespoke or standard range are backed up by a dedicated central team of specialist engineers able to rapidly adapt any product for a specific application and to provide an unrivalled level of customer support.

Displays are also supported with a return to base extended 24-month Manufacture warranty against mechanical failure or material defects.

Software

Our SDK is offered for a one-off licence fee from which customers can develop their own bespoke application solution. Available are optional plugins for J1939, NMEA 2000, and support hours are included should your engineers need any help along the way.

Alternatively, we can develop bespoke software to your specification using our experienced in house engineers.

Over the years our engineers have developed software for our displays to run rock crushers & mining machinery, measure performance of spraying equipment, acting as battery monitors, boat gyro stabilisers, plus many more including military and aerospace applications.

Also available is our Engine Monitor standard software for Industrial and Marine, which can be pre-loaded to our displays receiving and displaying J1939 engine and transmission data, including common Tier4 parameters, with active alarms (from DM1) & NMEA 2000 data, where supported.

Accessories

- Cable Harnesses
- Front Mounting Kits
- Protective Sun Covers
- Branding - Labels & Boxes
- GPS Sensor
- Development Harness

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Specifications

Hardware	
CPU	Freescale iMX 286 (454 MHz ARM926EJ-S)
FLASH Memory	128MB NAND
SDRAM	128MB

Electrical	
Display	a-Si TFT LCD 3.5'
Resolution	320 (H) x 240 (V) QVGA
Active Area	70.08mm (H) x 52.56mm (V)
Viewing Angle	130/110 degrees from 6 O'clock
Number Of Colours	64K
Contrast Ratio	300:1
Brightness	750 NIT (9cd/m2)
Power Requirements	10V to 32V DC
Sounder	Internal Buzzer
Connection	(1) 12 Pin Deutsch DT04-12SA Moulded in Receptacle

Mechanical	
Case material	ABS
Case colour	Black
Dimensions	95mm (W) x 95mm (H) Front x 23mm rear (D) and 23mm forward.

Communications	
Communications	1 X RS232, 1 X CAN Bus 2.0B (1 isolated), USB2.0

Part Number	
3520	C3i 3.5” CAN Display
3521	C3i 3.5” CAN Display with Engine Monitor Software Preloaded

Environmental	
Operating temperature	-40°C to +70°C
Storage Temperature	-40°C to +80°C
Degree of Protection	IP67 All Round, IP66 Front

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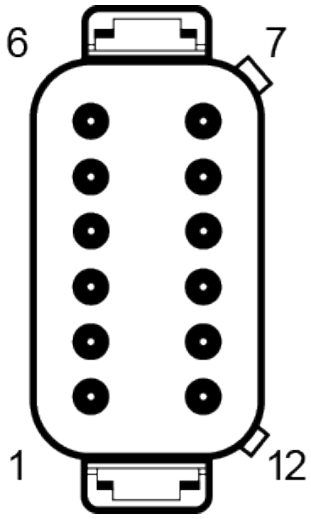
Connectors (Version No. 06)

Primary	
1	Ground
2	Power
3	RS232 Transmit
4	Ground
5	Ground
6	RS232 Receiver
7	CAN Data L
8	CAN Data H
9	Not Used
10	Not Used
11	Not Used
12	Not Used

Mates with DT06-12SA



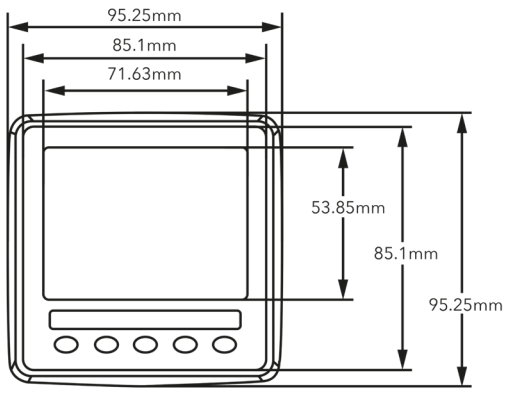
Note 1. (10-32V DC) Supply should be protected by 1A – Rated circuit breaker/fuse.

IMPORTANT NOTICE
Safety Warning: Please note analogue input voltages should not exceed the supply voltage or damage may occur. No power should be present on the harness during connection. USB port should not be used for charging external equipment such as mobile phones.

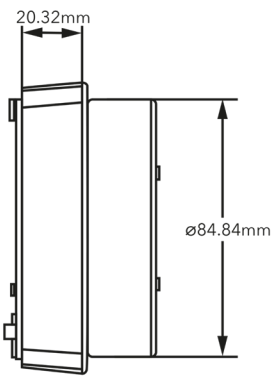
Connect Harness 1 (Primary) noting correct orientation of connector. Ensure it is fully mated so the connector latches into place.

Dimensions

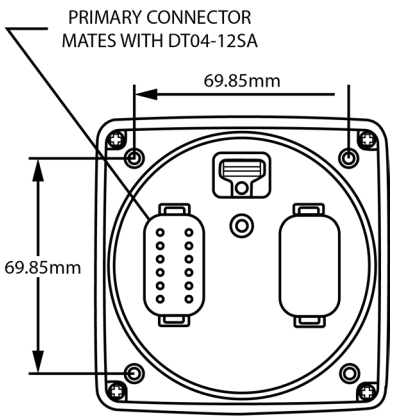
FRONT VIEW



SIDE VIEW



REAR VIEW



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