

PRODUCT SUMMARY

PCU-700 Display Unit

The PCU-700 is a lightweight high-resolution driver display module designed for motorsport applications. It is designed to connect to a host ECU via CAN and present the driver with information on a high resolution 4.3" backlit IPS LCD true colour display and LED lamps. The display is suitable for use in direct sunlight and at night. A configuration PC software tool is supplied with the unit. There are 100 pages available that are selectable by a CAN message and each page layout is fully customisable. Mounting points are compatible with the previous PCU-8D driver display module.

APPLICATION

- Typically installed within the steering wheel, although can be remotely mounted

KEY FEATURES

- Data Display and warning lamps
- 800 x 480 pixel resolution
- Brightness 600cd/m²
- Brightness adjustable via CAN message for low-light conditions.
- Contrast ratio 1200:1
- Fifteen RGB high intensity LEDs for a range of user-configurable colours
- Two sets of 3 side high intensity yellow, red and blue LEDs with current monitoring
- Sixteen gauge types for displaying data, include bar tacho, rev lights and variable text
- Alarm pages or user-configurable text warnings can be triggered by CAN messages

COMMUNICATIONS

- One CAN interface configurable as CAN-FD (4Mbps maximum) or CAN 2.0 (1Mbps) with no internal termination
- One USB interface for configuration only

INPUTS

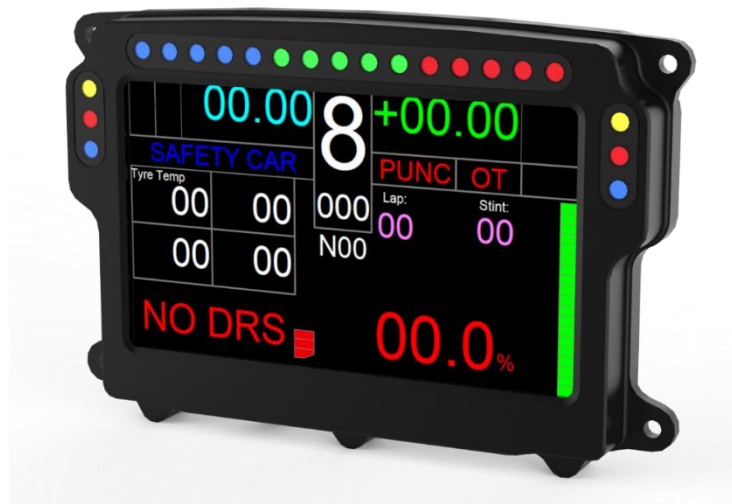
- One reset input (active low with internal pull-up; can be left unconnected if not required)

ELECTRICAL

- Supply voltage 8V to 16V DC
- Supply current operating (All LED indicators and display backlight on maximum brightness) 1.2A@12V
- Transient voltage and reverse-polarity protection

MECHANICAL

- Aluminium Case (hard black anodised)
- Weight with 0.5m cable 250g
- Weight without cable 220g



CONNECTION DEFINITION

- Un-terminated flying lead only (no connector fitted), length 0.5m

Wire Colours	Description	Wire Gauge
Orange	Unit Supply Positive	26AWG
Brown	Unit Supply Ground	26AWG
White	CAN +	26AWG
Blue	CAN -	26AWG
Green	USB Data +	26AWG
White	USB Data -	26AWG
Red	USB 5V	26AWG
Black	USB Ground	26AWG
Yellow	Reset input	26AWG

- Note the unit supply is required when configuring. The unit cannot be powered by USB

ENVIRONMENTAL AND COOLING

- Splash resistant to standard motorsport fluids
- Lid has a rubber seal, case fixings are sealed with silicone sealant
- Maximum humidity 95% non-condensing
- Operating Temperature 0°C to +70°C
- Storage temperature -25°C to +85°C
- Vibration 100 to 1000Hz, all axes, 24 hours
- Vibration isolation is recommended

ELECTRO MAGNETIC COMPATIBILITY

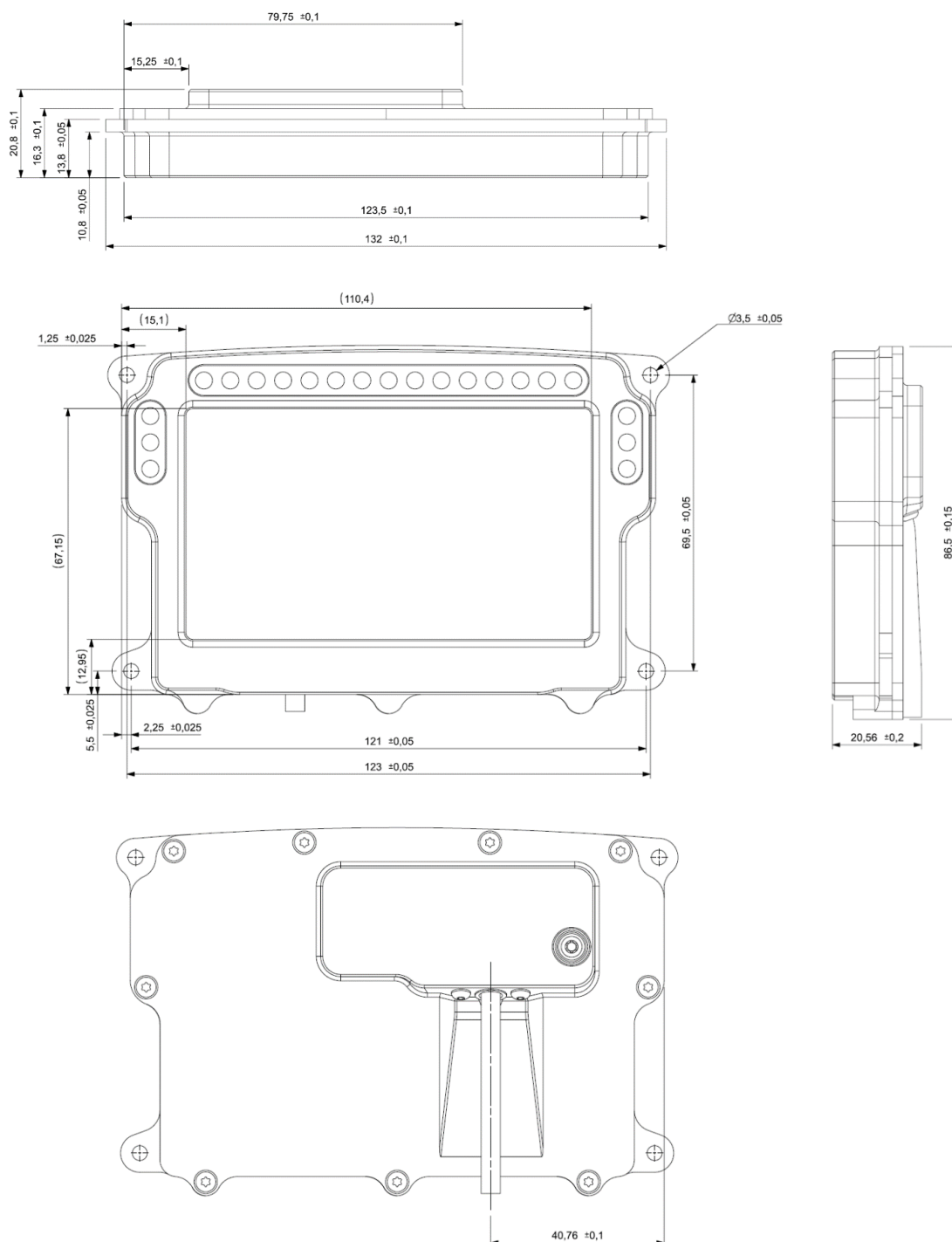
- Complies with the essential protection requirements of 2014/30/EU

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BASE UNIT

Order Code	Description
O 030 020 016 001	PCU-700 Dashboard Display Module – SECU4
O 030 020 016 002	PCU-700 Dashboard Display Module



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