DI-Dash_6/8_1C-400   BigDash display 1 CAN for WSS2022

Features

Based on newest COG technology (chip on glass) the well known 2D HQ Dashboard is coming in next generation as a stand alone unit with additional input channels.

➢ New glass design for better information with bigger dotmatrix area
➢ Reduced weight improved reliability by COG technology
➢ A graphic display with 132x64 dots can be used to show any channel or to display warning messages (indicating low oil pressure, high water temperature and low battery voltage)
➢ 64 segment rev-counter in graph style with user definable, non-linear range. Show gear position, number of laps, running down qualifying time. Update rate is 100Hz.
➢ Extra warning light on the side of the dashboard
➢ 2 independent external CAN-lines
➢ Online calculation channels
➢ Adjustable brightness of LEDs
➢ Full temperature range -20°C to 85°C
➢ Temperature controlled contrast
➢ Usable as standalone display unit
➢ Programmable via CAN-bus
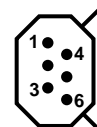➢ LEDBAR WITH WHITE COLOR LIGHTS

Connector layout   Connector type

6pin OEM connector

Pin	Name	Description
1	CAN 2 H	CAN Bus High (2nd CAN-line)
2	CAN 2 L	CAN Bus Low (2nd CAN-line)
3	Vext (KL-30)	External Power supply
4	BGND	Board Ground
5	Button (digital/TTL)	Digital input with TTL switching treshold (used for switching the pages)
6	BGND	Board Ground

Connector at display

6PM (front side)

8pin OEM connector

Pin	Name	Description
1	CAN 1 H	CAN Bus High (1st CAN-line)
2	CAN 1 L	CAN Bus Low (1st CAN-line)
3	+12V (diode)	Sensor supply (max. 20mA)
4	GND	Ground
5	4k7@5V	Analog supply (5V power supply / 4.7kΩ hard-wired)
6	GND	Ground
7	Analog_IN1 (4k7@5V)	Analog input with 4.7kΩ Pull-up to 5V (predefined per software for event function LAP). → also usable as analog input with 4.7kΩ Pull-up for NTC measurements.
8	Analog_IN2 (0-5V)	Analog input (0-5V)

8PM (front side)

5pin Serial connector

Pin	Name	Description
1	RxD	Serial Bus Receive
2	TxD	Serial Bus Transmit
3	GND	Ground

Connector at display

Binder 719, 5PM (front side)

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Technical specifications

Electrical characteristics

Power supply...	[V]	9-15
Current consumption:		
Shift led + background lighting off.........................	[mA]	150
Shift led + background lighting on..........................	[mA]	340
Shift led + background lighting + Warning light	[mA]	500
Graphic display...	[dots]	132 x 64

Communications

CAN-lines..		1

Channels

Calc..		12
CAN..		32
Analog..		5 (3 ext. + 2 int.)
Event..		8
Display...	[pages]	3
Channels per page.................................	[CH / page]	21
Programmable Shift-LEDs........................		8
LCD graphic bar with 64 segments..........		1

Mechanical

Dimensions...	[mm^3]	202 x 112.5 x 38
Weight...	[g]	540
Housing material..		PVC housing

Connector

6pin OEM connector....................................		1
8pin OEM connector....................................		1
5pin Serial connector (Binder 719, 5PM)...		1

Environmental

Operating temperature..	[°C]	-20 to +85
Humidity...	[%]	5-95

Options

2D offered a loom for this display (refer Looms/Cables)   Art.No.: WL-DI6_8_2C-000

Ordering information

Art.No.:
DI-Dash_6/8_2C-000... Display with 6/8 pin OEM connector and 2 CAN
DI-Dash_6/8_2C_endurance-000................................... Display with 6/8 pin OEM connector and 2 CAN
+ endurance mode for lap- and pit-timing
+ including 6 and 8 Pin OEM connector set

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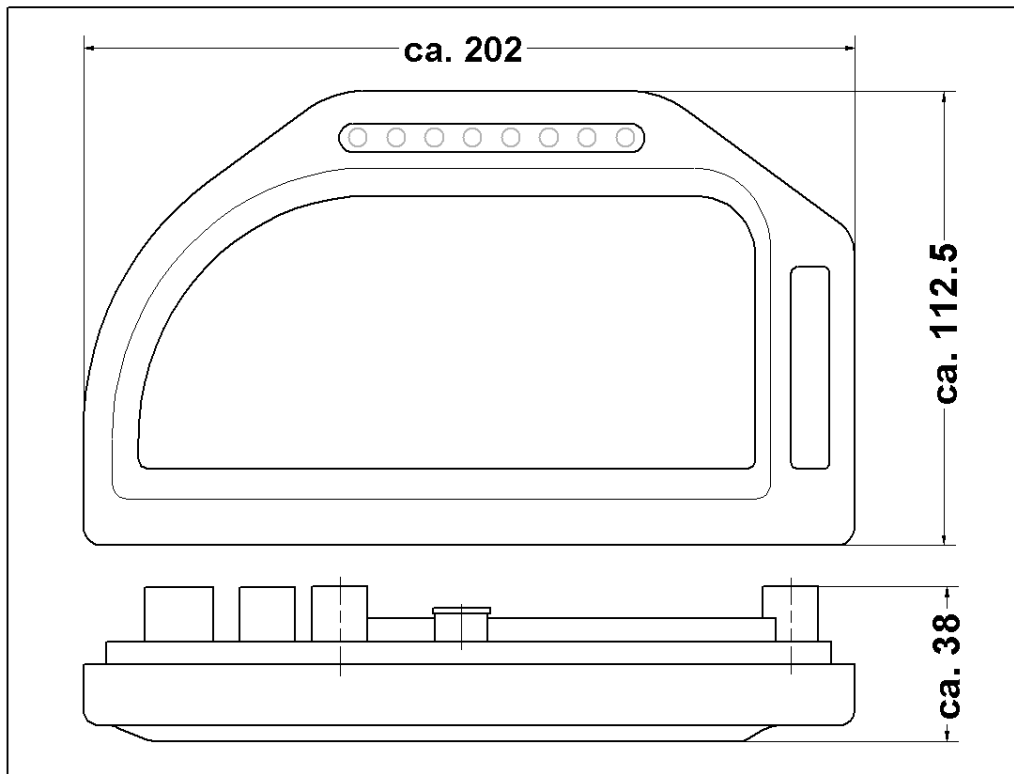
Dimensions

Documentation reference

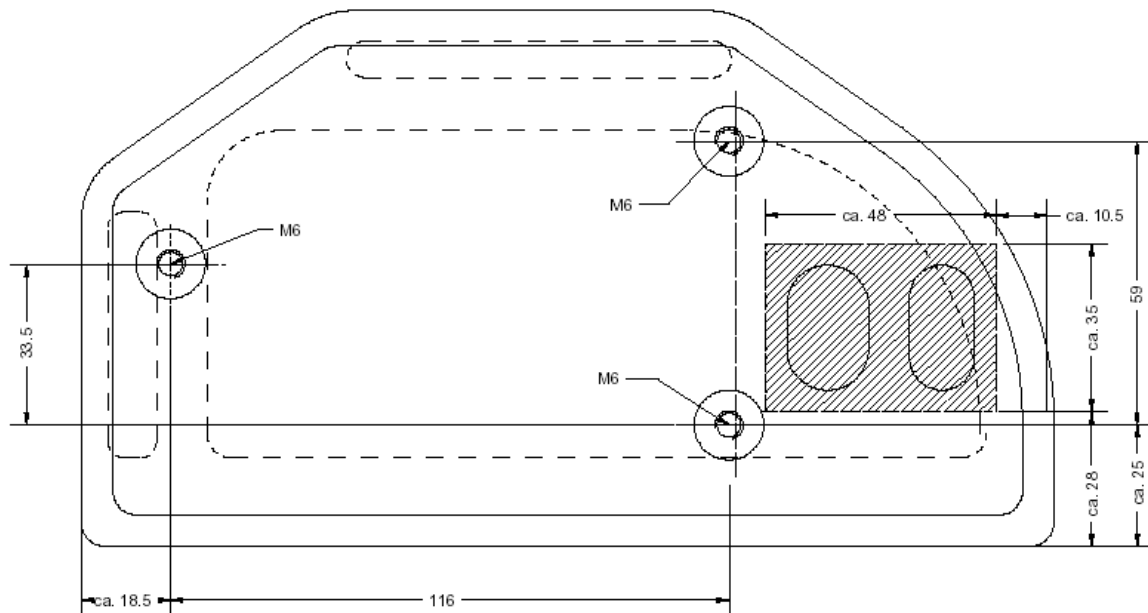A documentation about operating + setting for this display is available at www.2d-datarecording.com.
→ <products> <hardware> <display units> <Bigdash> <manual>

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Dimensions (housing backside)

Mounting advice:
The shaded square (in the upper illustration) shows the location of the rear plugs at the back side of the housing. It should be paid attention to kept this "shaded square" free.