

DI-ColorDash_35-000

TFT Color Display



Key Features

- Display features ([click here](#) to open demonstration video)
 - Sunlight readable 1000 nits, 3.5" true color TFT display
 - Background and font color individually adjustable with separate limits
 - 21 fully programmable (color and brightness) RGB LEDs with 5ms reaction time for shift light bar function
 - Adjustable display background light
 - Stand-alone display unit for any CAN(-FD) bus system
 - FIA and FIM Start Light simulation for practice starts with reaction time measurement
 - Predictive lap timing and GAP time ([YouTube video](#))
- CAN-bus features
 - Up to 3 CAN lines (*OPT-001*) with 5 Mbit/s each
(One CAN line can be used for CAN-FD)
 - 128 ONLINE CAN channels can be recorded and sent to other CAN-devices with sampling rate up to 1000 Hz each (online CAN-DB/DBC-file decoding)
- 64 Math channels for online calculation with > 8 MFlops
- Visibility at ambient operating temperature up to 75°C guaranteed
- Weight: approx. 170g
- USB-A connector for communication and USB-Stick recording
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- Optional with **Stick logging on USB-A-Stick** (*OPT-000*) with CAN-bus [Streamlogging](#)
- Optional with CAN/CAN-FD: XCP/CCP option with "Listen only" Mode (*OPT-005*)
- Optional with Analog and Frequency inputs (*OPT-010*)
- Optional with built-in Wi-Fi module for [wireless 2D WinIt communication](#) and for [2D Wi-Fi Interface](#) (*OPT-013*)

Technical specifications

CAN-IN characteristics		Mechanical characteristics	
CAN channels	128	Housing material	Aluminum
CAN lines	2	Dimensions	mm 113x70x13,5
Baud rate	kBd 125 / 250 / 500 / 1000 / 2000	Weight (cable included)	g 160
CAN-FD Baud rate	Mbit 2 / 4 / 5 / 8	Main Connector	Deutsch ASDD 606-09PC
Sampling rate CAN channels	Hz 1000	Cable	Raychem 9x AWG26
Internal CAN termination, switchable on CAN-Line 1	Ω 120	Length	mm 320
Channels		Environmental data	
Calc	32	Protection class	IP 67
Analog Inputs	4	Operating temp. CPU	°C -20 to +125
Frequency Inputs	1	Operating temp. LCD*	°C -20 to +75
Display pages	5	Humidity	% 5 to 95
Channels per page	9 / 9 / 9 / 16 / 12	Vibration resistance	
Programmable RGB shift LEDs	8	Shock	G 40
Programmable RGB warning LEDs	3 + 5	During time period of	ms 10
Electrical characteristics		Vibration tested at	G 12
Power supply	V 5 to 24	Measured with	Hz 1000
Current consumption @12V		Ordering information	
No LED + background lighting off	mA 230		
No LED + background lighting on	mA 270		
Shift LED (max) + background lighting off	mA 750		
Shift LED (max) + background lighting on	mA 800		
Shift LED (max) + background lighting on + warning light on	mA 900		

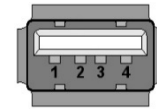
*Visibility guaranteed

Connector layout - USB

Connector type

USB, Type A, socket

Pin	Name	Description	Color
1	VCC	USB Power supply +5V	red
2	Data -	Data line -	white
3	Data +	Data line +	green
4	GND	Ground	black

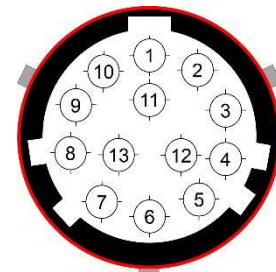


front view

Connector layout SPEC -000

Connector type

Pin	Name	Description	Color
1	Vext	Power input	red
2	CAN1 H	CAN(-FD) 1 High	white
3	CAN1 L	CAN(-FD) 1 Low	green
4	GND	Ground	black
5	Ain 1	Analog input 1	yellow/white
6	Ain 2	Analog input 2	orange/white
7	Ain 3	Analog input 3	red/white
8	FREQ	Frequency input	grey/white
9	Ain 4	Analog input 4	green/white
10	CAN2 L	CAN 2 Low	purple
11	CAN2 H	CAN 2 High	yellow
12	AGND	Analog Ground	blue
13	+5V	+5V Sensor Supply	pink



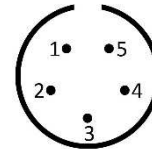
front view

Connector layout SPEC -001

Connector type

Main, Binder 719, 5PM

Pin	Name	Description	Color
1	CAN1 H	CAN 1 High	white
2	CAN1 L	CAN 1 Low	green
3	GND	Ground	black
4	Speed / Trigger	Speed / Trigger Input	blue
5	Vext	Power input	red



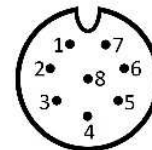
front view

Connector layout SPEC -011

Connector type

Main, Binder 712, 8PM

Pin	Name	Description	Color
1	Ain1	Analog input 1	brown
2	GND	Ground	black
3	+5V	+5V Sensor Supply	blue
4	Vext	Power input	red
5	CAN1 H	CAN 1 High	white
6	CAN1 L	CAN 1 Low	green
7	CAN2 H	CAN(-FD) 2 High	yellow
8	CAN2 L	CAN(-FD) 2 Low	purple



front view