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PRD10805 – MONITOR TFT 15.6” FASTON 24V FIT LC (FNI - EVOI) DATASHEET

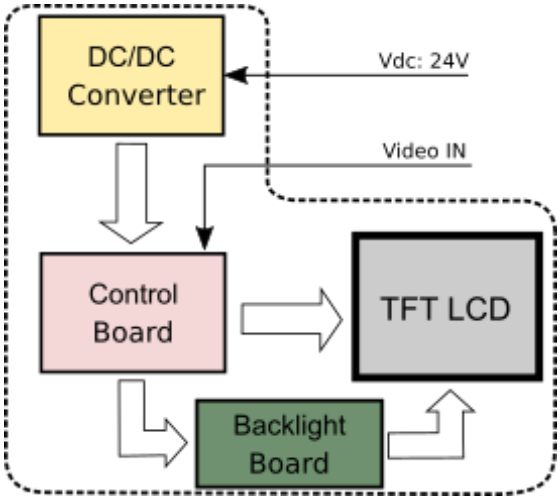
DESCRIPTION

The 15.6” monitor has the most advanced technology when it comes to image, it being composed of the amorphous silicon thin film transistor liquid crystal display (a-Si TFT LCD) panel structure with driver Large-scale integration (LSI) for driving the TFT array and the LED backlight. It was specifically designed, qualified and supported for use in automotive applications. The display supports the 1366 (H) x 768 (V) screen format and 262k colors (6-bit RGB data input). Its high resolution and wide viewing angle, allied with LED backlight cutting edge technology are differentials in this product.

FEATURES

- 15.6” High resolution active matrix LCD;
- LED backlight system;
- Grey case;
- Full HD resolution (1366 x 768);
- Wide viewing angle;
- 6-bit of support color (262k colors RGB);
- Auto ON/OFF in presence/absence of video signal;
- Protective glass;
- Overcurrent and overvoltage protection;
- Inverted power supply protection;
- Compact and innovative design;
- Easy to install on every automotive video
- system.

BLOCK DIAGRAM



	By	Date		Ref. ACTIA	Index
Draw	C. Dambroz	08/28/2019	MONITOR TFT 15.6” FASTON 24V FIT LC (FNI - EVOI)	**PRD10805**	**Rev00**
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TECHNICAL DATA

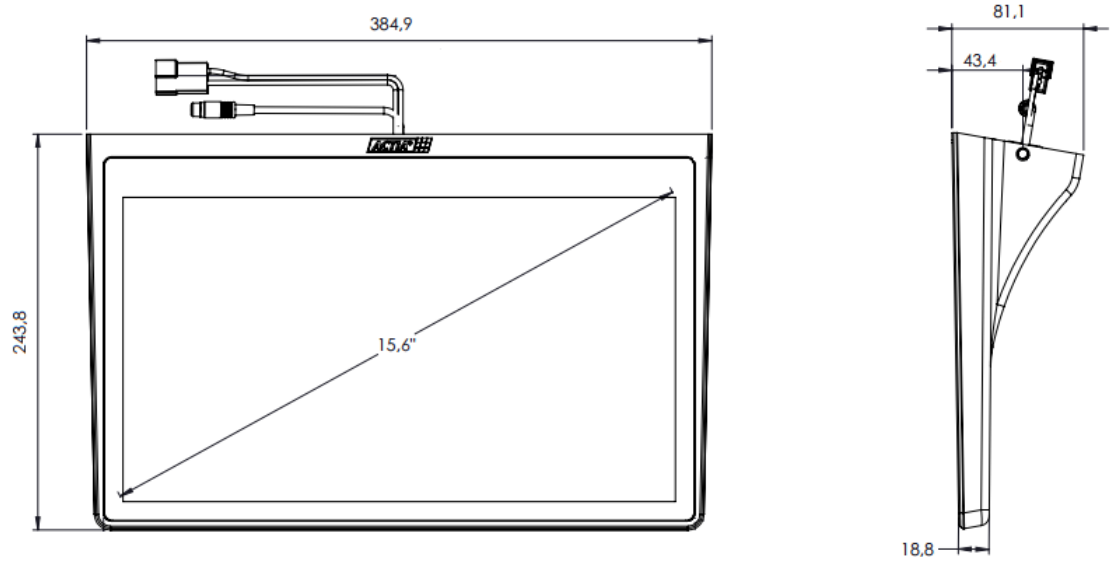
PARAMETER	MIN	TYP	MAX	UNIT
Supply voltage range	18	24	32	Vdc
Power consumption (operation)	-	6.5	6.7	W
Power consumption (standby)	-	3.6	3.8	W
Current Consumption (standby)	-	150	-	mA
Current Consumption (operation)	210	270	370	mA
Luminance	-	220	-	cd/m²
Contrast Ratio	-	500	-	-
Viewing angle CR=10 (horizontal)		±45	-	º
Viewing angle CR=10 (vertical)	-20	-	+40	º
Operating temperature range	0	-	50	ºC
Storage temperature range	-20	-	60	ºC
Life Time	15000			-
Degree of protection	IP20			-
Video System	PAL / NSTC			-
Video Input signal	CVBS / 1.0Vpp @ 75ohm			-
Aspect Ratio	16:9			-
Screen resolution	1366 x 768			pixels
Pixel Pitch	252 x 252			µm
Number of colors	262k colors (RGB 6-bit)			-
Weight	2.8			Kg

RELIABILITY TESTS	
Thermal Shock	ANSI/ASAE EP455 - 5.1.3 -40°C to 70°C at rate of 4°C/min. (1 hour each extremes).
Salt Spray	SAEJ1455 – 4.3 (ASTM B117). 48 hours of application.
Vibration, Random	SAE J1455 – 9.4.4.2 8 hours each axis @ 50°C (5Hz to 600Hz).
Shock/Crash safety	ANSI/ASAE EP455 – 5.14.1 A single 11ms half sine pulse of 490m/s^2 on the function axe.
Overvoltage	36V for 60min.
Reverse Voltage	ANSI/ASAE EP455 – 5.10.4
Short circuit protection	All inputs to Vdc, Ground and case for 60s.
Starting Profile	ISO16750- 2– 4.6.3
Load Dump	ISO16750-2– 4.6.4 160V (+-10%), tr=0,1ms, td=100ms, Ua=28V.

Switching spikes - Transients	ISO7637-2 Pulse 1, 2a, 2b, 3a and 3b.
Superimposed alternating voltage	ISO16750-2– 4.4 - Severity 1, 2 and 3.
Discontinuities in supply voltage	ISO16750-2– 4.6 Usmin with 100ms drop.

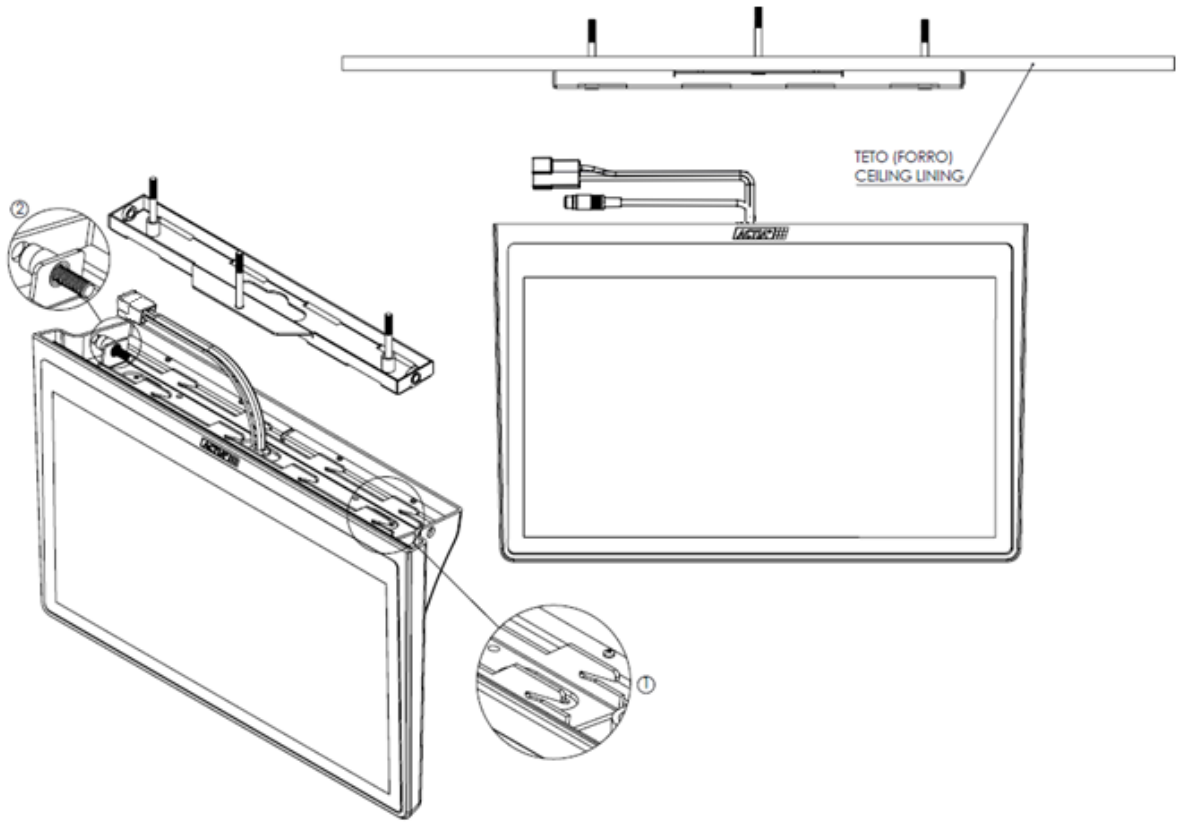
DIMENSIONS

(In millimeters)



CONNECTOR DETAILS

ACCESSORIES



1 – Fixation by serrated metal bracket;
2 – System fixed by Allen screw;
3 – Possibility of rotating serrated metal support (1) fixing reversing position.

REVISION HISTORY

Revision	*Date*	*Reviewer*	*Description*
00	08/28/2019	C.Dambroz	Document creation.