



## DP610LX Series PLUS+1™ Mobile Machine Displays

### Introduction

The Sauer-Danfoss DP610LX Series is an element of the PLUS+1™ family of mobile machine management products.

The DP610LX design provides mobile machine OEMs with a rugged, high performing color display, both in-cab and open usage.

These Transflective, thin film transistor (TFT), high resolution color displays fit your budget without losing performance quality.

The DP610LX features include robust mechanical, electrical and environmental specifications that meet the harsh operating conditions found in mobile machine applications.

Local Address:



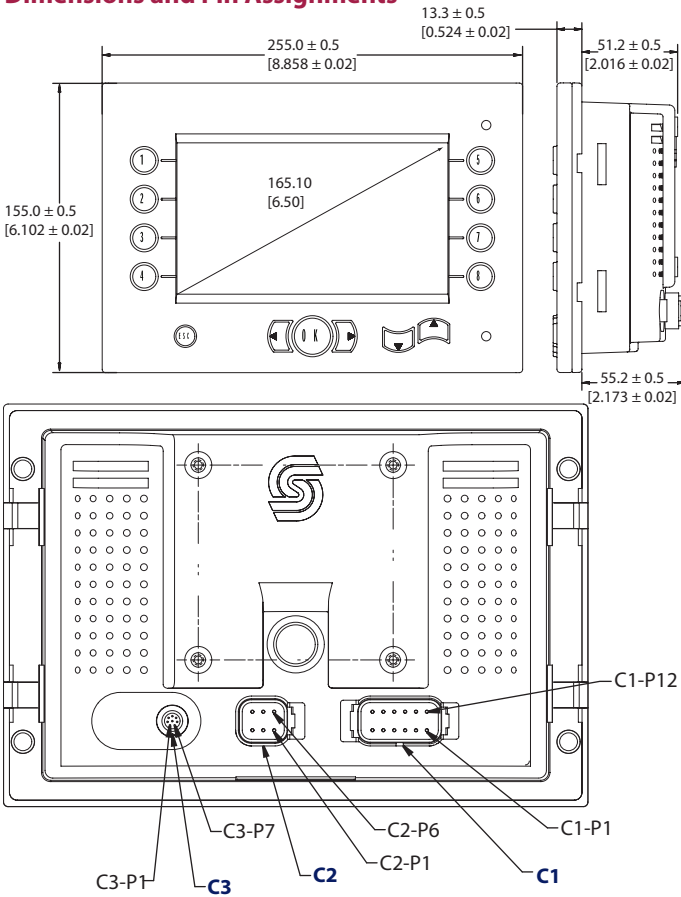
**PLUS+1™**  
by SAUER-DANFOSS

*DP610LX Graphical Display*

### Features

- User-programmable with PLUS+1 GUIDE (Graphical User Integrated Development Environment)
- High resolution TFT display 400 x 240 pixels, 15-bit color
- Optically bonded display option prevents fogging and improves optical clarity.
- Protective glass integrated into keypad provides superior antiglare and contrast control under all light conditions
- Two mounting options:
  - Flush mount in dashboard
  - Stand alone post mount according to VESA standard 75 mm x 75 mm [2.953 in x 2.953 in]
- Fully integrated connectors and silicone keypad provide water and dust protection from all sides
- Wide storage and operating temperature range
- GORE-TEX® membrane prevents moisture ingress and screen fogging
- Keypad with 14 buttons (8 soft-keys + 6 buttons for navigation)
- All buttons have green backlight design for low light and night use
- Ultra-bright red alarm LED
- On board real-time clock
- USB port for fast software down loads and uploads
- Integrated light sensor for automatic backlight adjustment
- Inputs for external menu navigation button give the driver full control while driving
- Digital output for external ALARM buzzer
- 16 MB application log memory

## Dimensions and Pin Assignments

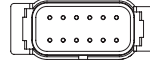


## Specifications

<b>Processor</b>	ARM 11, 532 MHz
<b>RAM</b>	512 MB
<b>FRAM</b>	8 kb
<b>Supply voltage/ Current consumption</b>	9 to 70 Vdc/ 1 AMP @ 14V, 0.5 AMP @ 28V
<b>LCD glass</b>	TFT with 15 bit resolution
<b>Viewable area</b>	155.00 mm x 89.20 mm (6.102 in x 3.512 in)
<b>Ingress Protection (IP) rating (with sealing plugs in unused connections)</b>	IP 67
<b>Operating temperature</b>	-30° C to 70° C (-22° F to 158° F)
<b>Storage temperature</b>	-40° C to 85° C (-40° F to 185° F)
<b>Weight</b>	1100g
<b>Vibration/ Shock</b>	3.17g/50g
<b>EMC/ ESD</b>	100V/m/15kV

Related Products	Part Number
Panel mounting kit	10101363
Deutsch 12 pin mating connector kit 20 to 24 AWG	10100944
Deutsch 12 pin mating connector kit 16 to 20 AWG	10102025
Mating connector kit	11109743
USB cable (device only)	10103497
USB cable (device and host)	11109121

## Deutsch® DTMO6 12 Pin



C1 Pin	Function
C1-P1	Power ground -
C1-P2	Power supply +
C1-P3	CAN1 High +
C1-P4	CAN1 Low -
C1-P5	AIN/ CAN shield
C1-P6	CAN0 High +
C1-P7	CAN0 Low -
C1-P8	Sensor supply
C1-P9	Multifunction-input
C1-P10	Multifunction-input
C1-P11	Analog/Digital input
C1-P12	Digital output

## Deutsch DTMO6 6 Pin



C2 Pin	Function
C2-P1	Battery ground
C2-P2	Redundant power supply
C2-P3	Redundant CAN1 High +
C2-P4	Redundant CAN1 Low -
C2-P5	CAN shield/ AIN
C2-P6	Digital/ AIN

## Binder 702 Series USB 8 Pin



C3 Pin	Function
C3-P1	USB device Vbus
C3-P2	USB device data -
C3-P3	USB device data +
C3-P4	USB device ground
C3-P5	USB host ground/ RS232
C3-P6	USB host data +/ RS232 Rx/D
C3-P7	USB host data - /RS232 Tx/D
C3-P8	USB host Vbus

## Model Features

	A	B	C	D	E	F	G	Part number
DP610LX	10	02	06	02	04	04		11100060
DP610LX	10	02	06	02	04	00		11103051

<b>A</b>	<b>Model Name</b>	<b>DP610LX</b> PLUS+1™ Mobile Machine Displays
<b>B</b>	<b>Input/ Output Options</b>	<b>10</b> 2 CAN, 2 DIN/AIN/Freqin/Rheo/4-20mA In, 2 VideoIn, 2 AIN/CAN Shield
<b>C</b>	<b>Real Time Clock/ Low Temperature Functionality</b>	<b>02</b> RTC
<b>D</b>	<b>Flash Memory/ Application Key</b>	<b>06</b> 512 MB/ without application key
<b>E</b>	<b>Application Log (Vault Memory)</b>	<b>02</b> 16 MB
<b>F</b>	<b>USB Port Type</b>	<b>04</b> USB device, host/ RS232 in rear
<b>G</b>	<b>Screen Size/ Feature</b>	<b>00</b> 400 x 240 color transfective
		<b>04</b> 400 x 240 color transfective optically bonded

Sauer-Danfoss comprehensive *technical information* is on line at: [www.sauer-danfoss.com](http://www.sauer-danfoss.com)