

# Touch Panel Display Module



## Introduction

The E-Plex 367TPD series has a resistive touch panel, with LED's for status indication and a 4-digit, 7-segment numerical LED display allowing valuable information to be viewed. The touch panel display also includes an audible alarm for switch input verification or alert conditions.

Customizable artwork is available for button identification. The display's electroluminescent (EL) backlight allows the entire touch screen to be illuminated uniformly, making it easy to view in various lighting conditions. The backlight can also be operated in a screen saver mode which will blank it when not in use to extend the life of the EL panel. In addition, the audible alarm can be muted for nighttime operation.

## Key Features

- 6 LED's for status indications.
- Up to 8 user-defined touch regions.
- Piezo buzzer for alert notification.
- Electroluminescent backlight for night-time display.
- 3" diagonal resistive touch panel.
- 4-digit numerical display to show values with tenths decimal point.
- Custom artwork overlays with a variety of plastic bezel finishes for interior aesthetics.
- LEN value 20.

## Design Specifications

- Impact resistance: 9g steel ball dropped from 300mm.
- Vibration: 1G, 10 - 500Hz for 1 hour, each direction.
- Moisture resistance: IP20.
- PCB characteristics: UL94V-0.

## Electrical Specifications

Description	Minimum	Nominal	Maximum
Operating Voltage	10 VDC	12 / 24 VDC	32 VDC
Operating Current, no E-Plex loads	30 mA	-	185 mA

## Physical Specifications

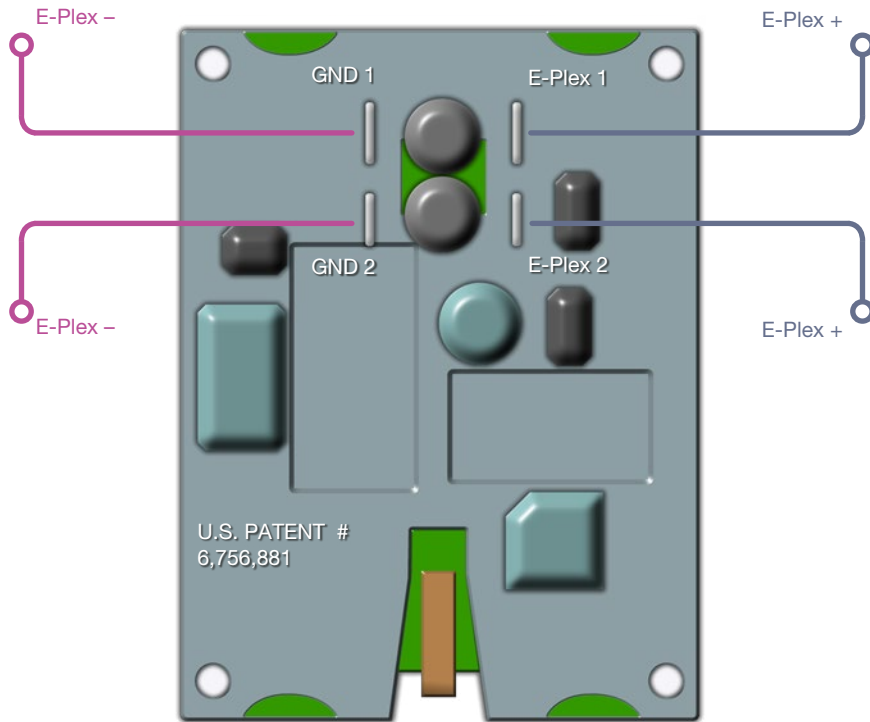
Front Bezel	ULV94-0 approved molded ABS, powder-coat finish
Back Cover	ULV94-0 approved molded ABS
LED's	50 mcd
Electroluminescent (EL) Backlight	5,000 hours typical half-life
Touch Glass Frame	Stamped Stainless Steel
Operating Temperature	-20°C to 60°C
Storage Temperature	-40°C to 85°C
Operating Humidity	5% to 95% (non-condensing)
Weight	2.2 ounces (63 grams)
Recommended Wire Specification for E-Plex Twisted Pair <sup>1</sup>	16 AWG (1.3 mm) - Unshielded, twisted pair General purpose: Belden 1035 A - Non-tinned Marine: Belden 9410 - Tinned

## Wiring Specifications

Terminal Connector Specifications	Tin-plated male 0.250" quick-connect tabs
Mating Connector Specification	0.250" female spade terminal

NOTE: 1. Unrestricted topology: Star, Tree, Daisy Chain configurations all valid.

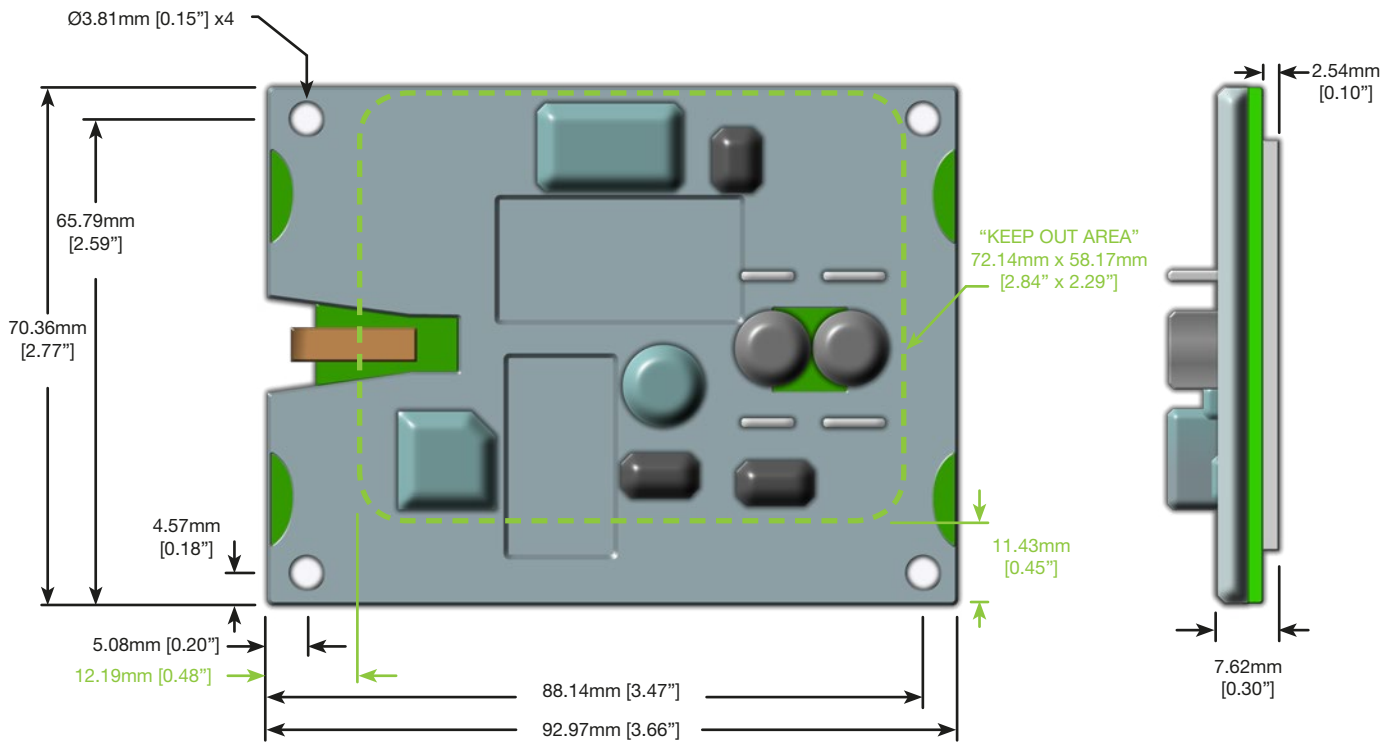
Typical Wiring Diagram



Connection Specifications

Pin #	Pin Description	Inputs and Outputs
1	E-Plex Data Bus -	I / O
2	E-Plex Data Bus -	I / O
3	E-Plex Data Bus +	I / O
4	E-Plex Data Bus +	I / O

## Dimensional Diagram



## Dimensional Diagram & Mounting Specifications

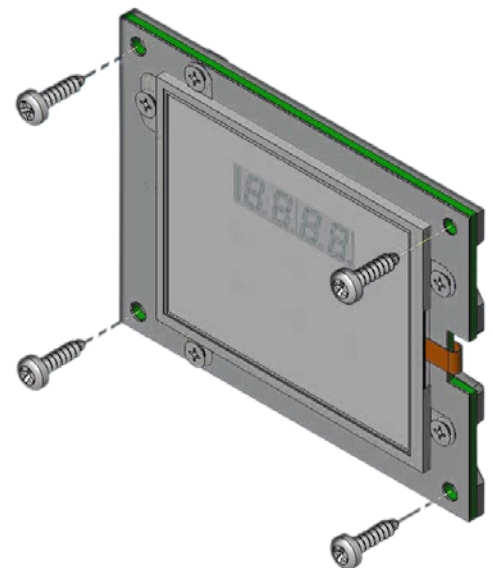
Cut / route out a hole in the surface to allow the wiring and protruding components on the back side of the module to protrude through. The hole-saw cut should be at least  $72.14\text{mm} \times 58.17\text{mm}$  [2.84" x 2.29"]. Then, drill four mounting holes  $3.81\text{mm}$  [0.15"] diameter for the mounting screws.

## Mounting Instructions

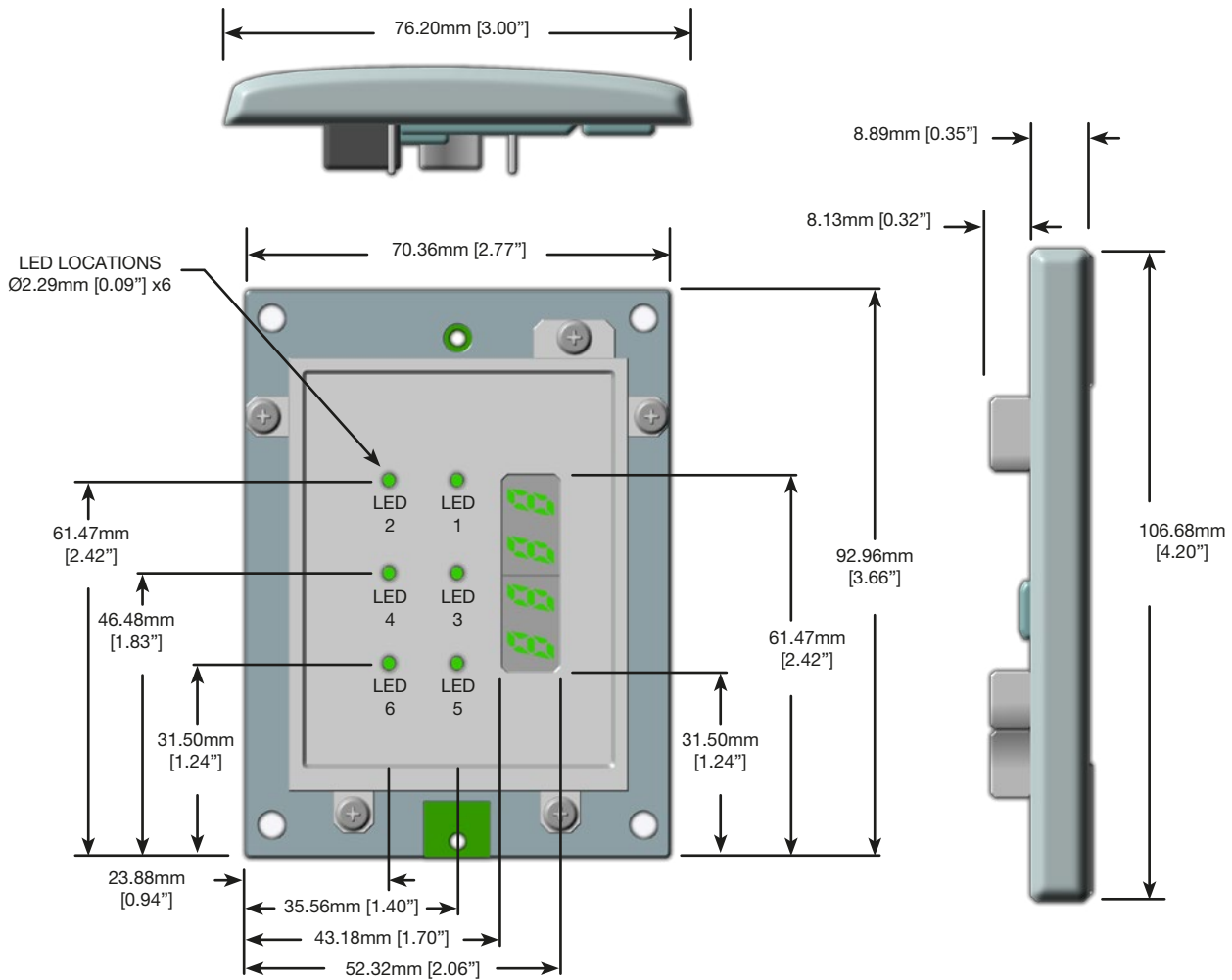
Use M3 size screw and to  $90\sim 113\text{ N-cm}$ . Do not exceed this torque as it could cause damage to the electronics.

Imperial (English) fasteners: Use #6 size screws and torque to  $8\sim 10\text{ in-lb}$ . Do not exceed this torque as it could cause damage to the electronics.

The mounting screw head height must be less than  $0.254\text{mm}$  [0.01"].



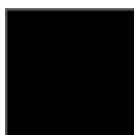
## Dimensional Diagram



## Ordering Information

Description	E-Plex Part Number
367TPD Series - Touch Panel Display	EP-CONT-TPS-DISPL-367TPD
Customer Defined Bezel (see below)	EP-BEZEL-TPS-XX

## Standard Bezel Options



Flat Black Bezel  
EP-BEZEL-TPS-BLACKMATT



Black Gloss Bezel  
EP-BEZEL-TPS-BLACKGLOSS



Bronze Bezel  
EP-BEZEL-TPS-BRONZE



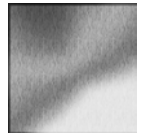
Grey Gloss Bezel  
EP-BEZEL-TPS-GGREY



White Gloss Bezel  
EP-BEZEL-TPS-GLOSSWHITE



Silver Chrome Gloss Bezel  
EP-BEZEL-TPS-CHROME



Metallic Nickel Gloss Bezel  
EP-BEZEL-TPS-NICKEL



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