

Product Highlights

- Integrated Dual Motor Drive and Vehicle Management System
- Proportional Control of Traction and Steering
- Built-in Tilt Sensor
- Overload per EN280



TRIONIC
vehicle controls

General Features

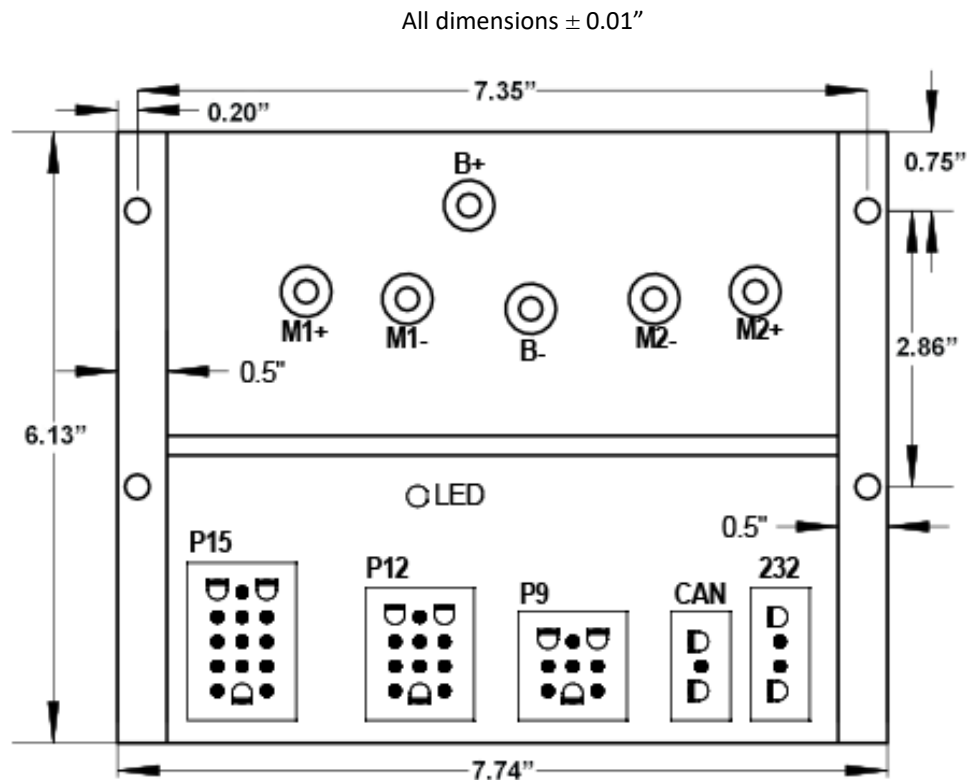
- 2 x 3.2 HP traction motor controller and pump motor controller
- Proportional Traction and steering
- Integrated tilt sensor can be configured to limit or prevent selected functions when vehicle is tilted
- Platform overload can be configured for EN280 compliance (requires pressure sensor and height sensor [EZfit])
- Flash memory allows factory configuration to exact vehicle needs
- Inputs from platform joystick & switches (or ground mode emergency switches) control vehicle functions via protected valve & line contactor drivers
- Inputs from various cutout switches can be configured to limit or prevent selected functions depending on vehicle state.
- Dual micro-controller ensures failsafe operation
- Available **EZcal** hand-held allows access to configuration settings and diagnostics including history log (via RS232)
- All inputs & outputs can be tested with **EZcal** to identify wiring errors
- Integral status LED provides (flashing) fault code indication

Optional: Text display module provides end-user status & fault descriptions to minimize down time

Technical Data

Power supply	24V	16 to 33 Vdc	Under and Over voltage shutdown Reverse battery protected
TS100 current	320A	(2x160A)	Total 2 mm
PWM Frequency	15 KHz		
Integral tilt sensor	+/- 0 to 10°	$\sqrt{(x^2+y^2)}$	
ON/OFF power outputs	6	3A	Automotive spec. protected drivers
Proportional power outputs	2	3A	Automotive spec. protected drivers
Indicator outputs	4/6	1A	Automotive spec. protected drivers
Digital inputs	13/15		Low impedance eliminates moisture problems
Analog inputs	6	0-5 Vdc	protected from wiring errors
Water proof	IP65		
Ambient working temperature	-40 to +50°C		Controller must be mounted to vehicle frame to provide heatsink
Overall dimensions	7.8" x 6.2" x 2 ¼ "		L x W x H
	199 x 158 x 58 mm		

Dimensions



Overall Dimensions
7.8" max" x 6.2" max" x 2.1/4"
199 x 158 x 58 mm

Mounting Instructions

The TS100 control module requires special installation due to its integral tilt sensor. The module must be mounted perpendicular to the ground, with the connectors at the bottom. To achieve full power capability, the base plate should be bolted to a large metal part of the chassis with 4 of M6 x 17mm (min) bolts. The base plate must be oriented at 0° or 90° to the direction of travel.