



CONTROL
SOLUTIONS LLC

CS9000 Digital Display

Keep track of your products vital statistics



***“We Put The Personality
In Your Product”***



For more information please
scan this QR code.



Battery Status

The CS9000 displays the battery state-of-charge with a bright and clear backlit universal battery symbol. Segments and transitions are programmable based on Motor Controller settings. Operational from 12V through 72 nominal systems. The display will also flash a low-battery warning at the programmable low voltage limit.



Drive Time Status

No need to burden your system with a separate hour meter. The CS9000 has the hour meter already built in. This hour meter (when used with CS Motor Controller) only increments when the motor is running which represents a true service/maintenance counter. Other industry hour meters often give misleading hours/min since they can increment without movement.



Fault Indicator Status

Fault codes are clearly shared with the user operating the equipment. Depending on the application/industry and programmable settings, the CS9000 can display over 20 unique and practical error codes. This makes field service and the process of debugging issues in the field much more efficient and accurate.



Battery Charge Status

When using a CS designed battery charger and certain select known industry chargers, the CS9000 can also give the user direct and clear indication of the battery charging progress. This represents a significant advantage to the user experience in that the progress is up front and center which inherently promotes more complete charging cycles and improves battery life.



Custom Logo Splash Screen

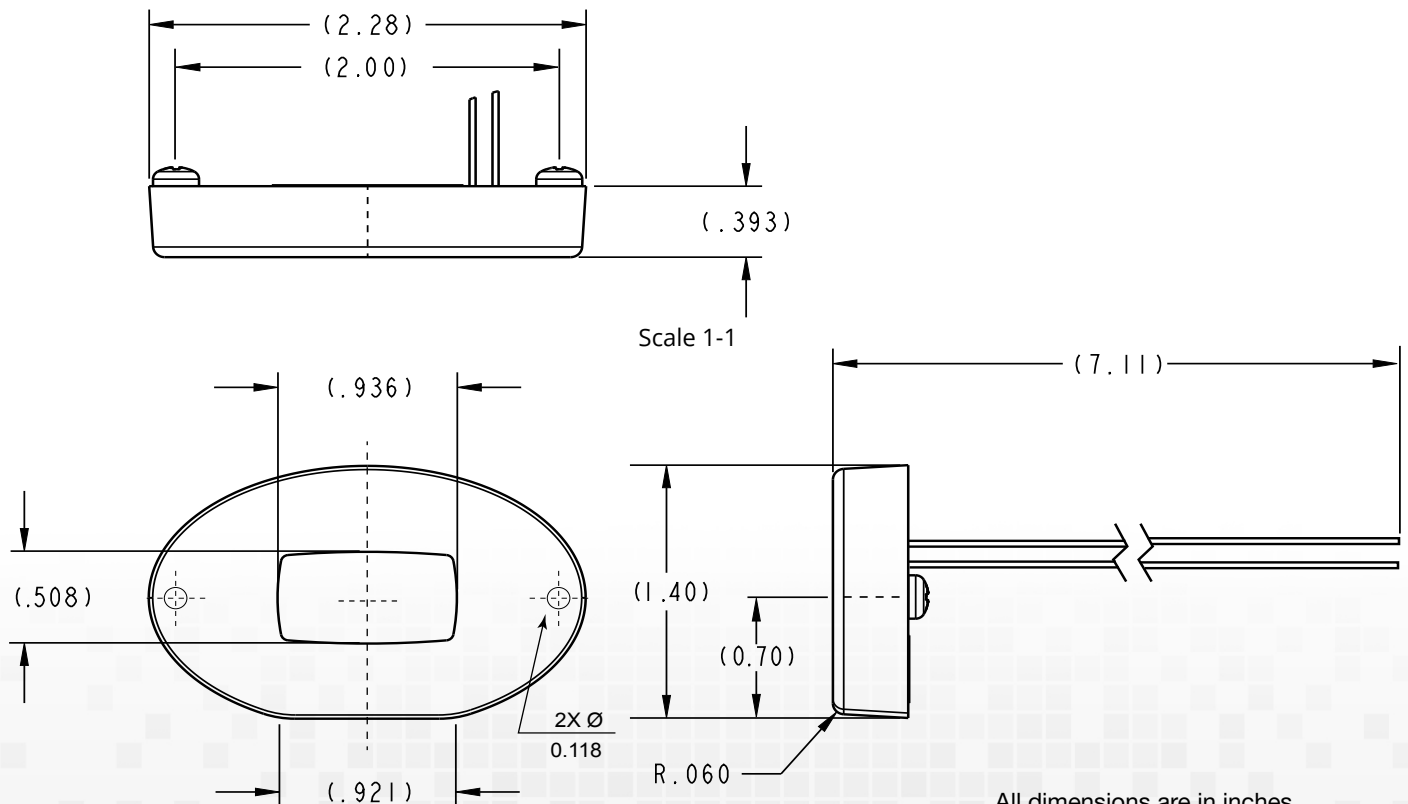
We offer a personalized touch to the CS9000 by designing your custom logo right into the operation of the display. This allows us to add your personality to the startup screen and to better promote your brand to your customer base.

CS9000 Specifications

Voltage:	Configurable for 12V-72V Systems
Low Power Consumption:	Total Current Draw<10mA
Operating Range:	-20C to +70C
System Fault Detection:	Displays any Faults as an on-screen message
Protection:	Designed to meet IP67 level Water/Dust Protection
Compliance:	RoHS Compliant (Directive 2002/95/EC)
I2C Communication:	Compatible with any Phoenix or 1108 Controller
SoC Indicator:	Battery level shown in 6 segments
Custom Display:	Software configurable for unique logos, interfaces, screens, etc.

All specifications subject to change without notice.

CS9000 Schematic Diagram



All dimensions are in inches.

All specifications subject to change without notice.

Family of Motion Control Products by Control Solutions



The Phoenix Family of Motor Controllers is "one of a kind" in the world of motion control today. From its power-to-size ratio to the ability to control multiple motor technologies, to the wide range of input voltages and output currents, **Phoenix** simply has no equal.

CS1108 Motor Controller series can be programmed to operate smoothly, reliably, and efficiently in a wide range of applications. Its flexible architecture is designed to allow a custom fit for special applications.



CS1204B Battery Charger 24V or series-wired pair of 12V lead acid batteries (24 Amp-Hour or larger). Utilizing an internal microprocessor, the CS1204B charger adds multi-stage charging features and monitors the battery conditions to ensure batteries are fully charged without overcharging.

CS1205 Battery Charger 24 VDC 120 Watt Intelligent Utilizing an internal microprocessor, the CS1205 charger adds multi-stage charging features and monitors the battery conditions to ensure batteries are fully charged without overcharging.



"We Put The Personality In Your Product"

Your end product is unique and special to you. The features it has. The way it feels when you drive it. The way it outperforms the competition. There are likely countless attributes that set it apart from the competition that give it true value. This is what we like to call "The Personality". Control Solutions has been working for 30+ years developing innovative motion control products that do just that. Most importantly, we prefer to work intimately with each and every OEM to help identify the personality needed and to optimize it to its fullest potential.



Control Solutions LLC corporate headquarters and manufacturing located in the western suburbs of Chicago, Illinois

We stand ready to help you with your design project. Contact us today to discuss your requirements. If you are looking for a rapid response to set your world in motion, look no further than Control Solutions.

Certifications

ISO-9001 2015 certification
FDA-registered manufacturing facility
FDA 510(k) registered manufacturer



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CONTROL SOLUTIONS LLC™
2520 Diehl Road, Aurora, Illinois 60502
Tel: 630.806.7062 Fax: 630.806.7065
www.controls.com



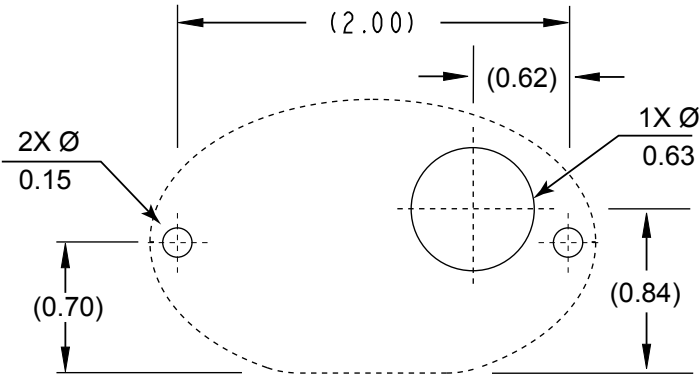
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CS9000

Hole Template

Note:
When printing PDF, make sure its at 100%

*Use this 2 inch measurement to check
scale at 1 – 1 before drilling the holes.*



FRONT

Scale 1 to 1



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