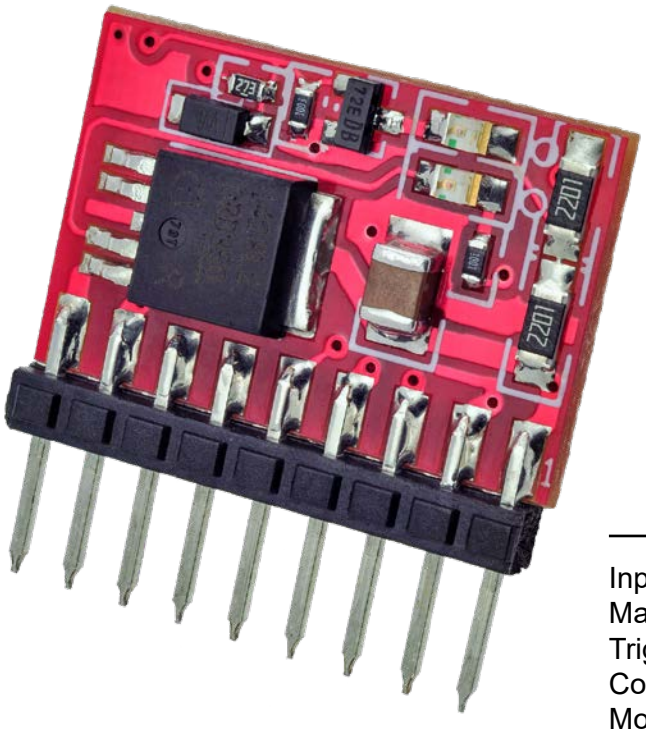
SOLID STATE RELAY

KG4-SSR-V1.0

KG4 Controls
PUTTING YOU IN CONTROL



Typical Applications

- ☐ Power Solenoid Valves
- ☐ Drive Electromagnets
- ☐ Operate Solenoid Switches
- ☐ Activate Solenoid Latches
- ☐ Switch Small DC Motors and Pumps

RELIABLE
The Solid State Relay operates as a normal relay but has no moving parts which means less chance of failure over time.

POWER EFFICIENT
Power consumption is always a key factor on any portable product. The Solid State Relay has a very low standby current and is able to change states using a trigger at CMOS level voltages.

EASY TO USE
The module design gives an off the shelf solution that takes the difficult engineering aspect out of the equation. Just plug the driver into the docking board and you're ready to attach wires and coils and control elements.

Specifications

Input Voltage	8-28 VDC
Max Current	7 A
Trigger Voltage	4.5-24 VDC ≤ Input
Connection Type	1x9 Header
Mounting Type	1x9

The Solid State Relay is a coil driver aimed at simplifying customer's design process. Whether your goal is to develop a complicated system of solenoids and electromagnets for an industrial application or to utilize one coil device for a school project, this driver is the right device for the job. This driver is a standard ON/OFF device that powers a coil with 100% of the power that is fed to the circuit and continues to hold at that power level continuously. The SSR-V1.0 is designed to fit with our CCX8-V1.0 Multiboards to give customers unparalleled flexibility and ease of use but can also be used in standalone applications. This driver was designed to power many coil devices anywhere from the smallest solenoid valves all the way to large electromagnets. Although the relay driver was originally designed for switching coil based devices, it is robust enough to power inductive and resistive loads such as low voltage DC motors, pumps and lighting applications.

The Simple design of this driver ensures reliabilty wherever a driver is needed. It is no more difficult to wire up into a system than a standard relay would. This design is far superior to standard relays because there are no moving parts and nothing to wear out over time.

www.kg4controls.com

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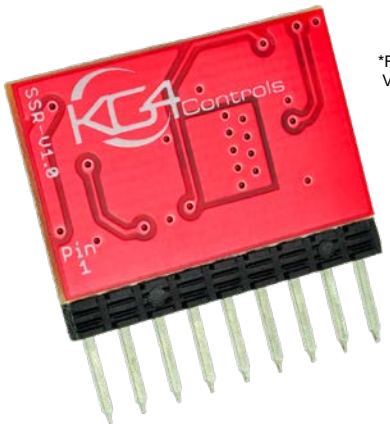
Easy Implementation

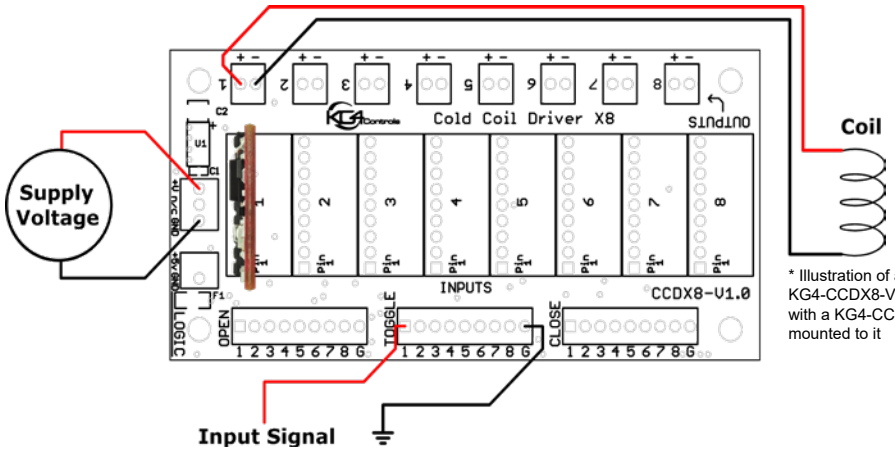
Many applications that use coil based devices require some type of digital control but most require far more power than can be supplied by a digital signal. We provide off the shelf solutions that can interface with various input signals, anything from CMOS levels up to and including the device's line voltage energizing a magnitude of coils and devices.

Too often manufacturers of coil devices do not offer a reliable way to power their products and designing a driver from scratch is a time consuming and costly endeavor. The Solid State Relay takes much of the design aspect out of utilizing coil devices. It is a plug-in option that takes very little time to wire up and bridges the gap between the power level differences of control systems and the hardware.

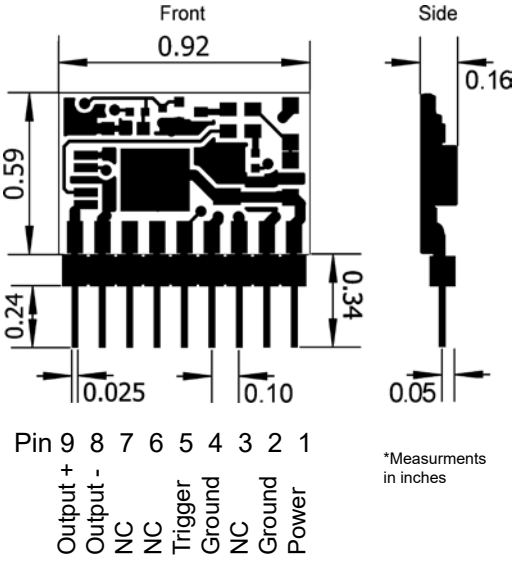


*Rear View

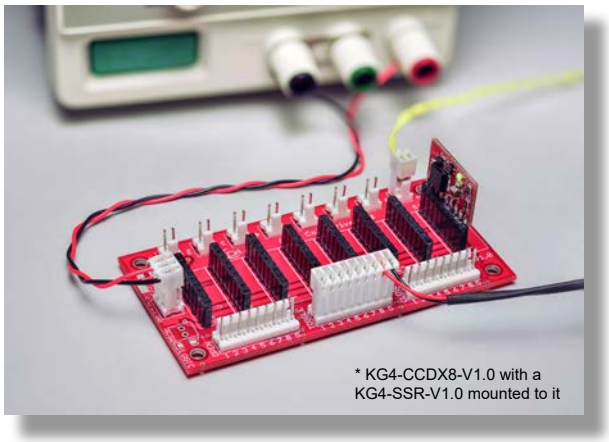
System Diagram



* Illustration of a KG4-CCDX8-V1.0 with a KG4-CCD-V1.0 mounted to it



*Measurments in inches



* KG4-CCDX8-V1.0 with a KG4-SSR-V1.0 mounted to it

Modular Design

The innovative module design allows users to easily power and control coil driven devices. Once a driver is installed onto the module board and a coil device is wired up, the user only needs to apply power and a control signal to the board to be off and running. A typical system layout with one coil is shown to the left. Up to eight Solid State Relays or a combination of other KG4 drivers can mount to our CCDX8-V1.0 boards facilitating drop in solutions for complete system integration.

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