



Description

The 'InvisiSwitch' is a unique magnetic latching R/C charge/switch harness designed to be hidden from view and has no external moving parts. It is actuated by simply passing a high density field strength magnet within a half of an inch of its concealed location. One pole of the magnet latches the switch in the "on" position while the other pole unlatches it, i.e. turns it "off". Once latched in the "on" position it will remain "on" through 30 G's of vibration and 50 G's of shock. It will safely carry a "load" of 5 amps continuous, allowing a 100% safety margin and it will sustain brief periods of up to 10 amps surge current. An indicator LED verifies its operational status. Its endurance lifespan is rated for 1 billion "on/off" operations. It incorporates a "charge plug" that can be mounted in a charge plug receptacle if desired. The ISW-S1 model is for single battery pack applications while the S-2 model is designed with a second battery pack input plug for dual * battery or "dual battery lead" packs. Mounting is simply a matter of peeling off the double sided tapes protective layer and "sticking" the switch to a smooth surface or for easy removal, use the enclosed hook & loop tape. When mounting, keep the switch at least 1/2 inch from strong magnetic sources, such as electrically powered motors.

* To properly charge a dual pack system through the InvisiSwitch it is best to charge each pack separately by disconnecting one while charging the other.

Each plug is color coded and marked with a letter representing where it goes. The battery pack plugs into the female plug "B". the male "Rx" connector plugs into the receiver's battery port. Male connector "C" plugs into the charger.

LED Operation

A flashing LED indicates the "on" status. It is recommended the LED be installed next to the switch's concealed location so you know where to pass the actuator when enabling or disabling. The plastic LED clip enclosed requires a 1/4" hole be drilled in a surface of 5/32" or less. Insert the clip from the outside, then snap in the LED from the inside. The plug is color coded to match the switch input plug.

Optional Indicator

For onboard power and electronics monitoring, the LED may be substituted for the GEM 2000 "Electronic Guardian monitoring instrument. To make this substitution, cut off the G2K's power plug and solder it into the Dean's 2 pin male plug connector after removing the LED. Use the enclosed tubing for insulation.

Caution: Make sure the G2K's red lead is soldered to the right side pin with the colored dot facing upwards. This assures correct polarity when plugging into the corresponding color coded female plug. Magnetic Actuator

Any high density magnet can be used to actuate the 'InvisiSwitch' if the regular actuator was not included in your package. The magnetic actuator included is suitable for most models. However, if you require a more powerful magnet to actuate the switch at a greater distance, we recommend a cow magnet. This is a very powerful 'neodymium' type nickel plated cylinder measuring about 3" long by 1/2" diameter. They run about \$5.00 and are available through farm animal feed stores and often large animal vets. You can easily find them by doing an online search for "cow magnets".

Charging

You can charge through the InvisiSwitch by plugging your charger into the plug coded with the letter 'C'. The InvisiSwitch must be in the off position (LED off)

Caution

The InvisiSwitch is rated for handling a maximum power load of 25 watts continuous with brief surges of 50 watts . You can determine power with the equation $P = I \times V$ or $P = I^2 \times R$.

P= Power (watts), I = Amperes (current), V= Volts and R= Resistance (ohms).