



Technical Bulletins

Bench Testing Hall Effect Switches

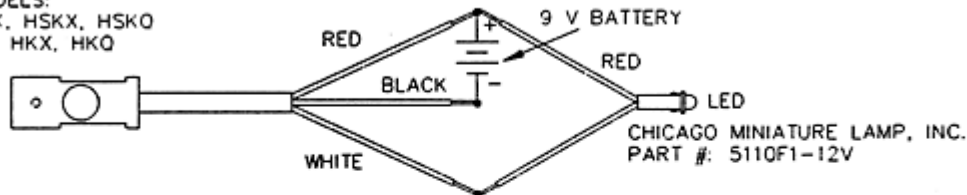
The following is a recommended test method for checking the operation of a Hall Effect switch. What is required is a 9 Volt battery, and an LED with a built-in resistor (Chicago Miniature Lamp part: 5110F1-12V). This test circuit works for voltage ranges of 5 to 12 V DC. Information on purchasing the LED required for the test is given on page 2 of this bulletin.

How to check a Hall Effect switch:

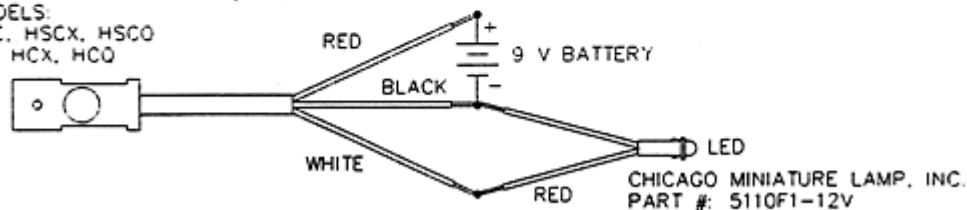
1. Connect your Hall switch as shown. Make sure you hook up the appropriate test circuit depending on whether you have a Sourcing or a Sinking switch.
2. Place a magnet near the Hall Effect switch. If the LED lights up and responds to the magnet, then you have a working switch.

Note: If the battery is low, and is supplying less than 5 V DC, the Hall Effect switch will stay "ON" all the time or won't work at all.

TESTING CIRCUIT FOR:
SINKING HALL EFFECT (NPN)
MODELS:
HSK, HSKX, HSKO
HK, HKX, HKO



TESTING CIRCUIT FOR:
SOURCING HALL EFFECT (PNP)
MODELS:
HSC, HSCX, HSCO
HC, HCX, HCO



Chicago Miniature Lamp is one of the largest LED manufacturers in the US. They are carried by two major electrical distributors. The phone number for Chicago Miniature Lamp: Corporate #:: (201) 489-8989 or Local Division #:: (847) 882-8720 Two major national electrical distributors that carry CML are:

Newark: 1-800-463-9275 DigiKey: 1-800-344-4539

Date: 12/4/08 Rev Level: 0