



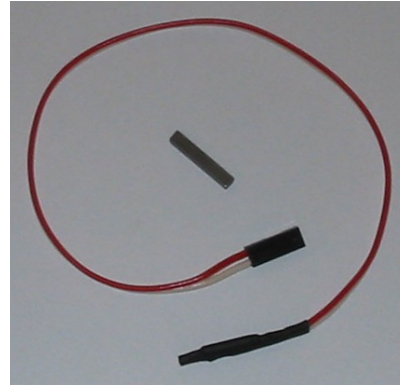
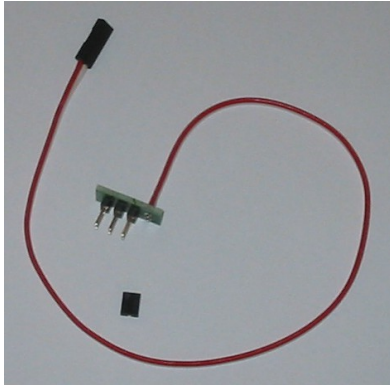
**Thomson
Automation**

Wheels-up Switches For Landing Gear Controller

Reed switch & Magnet

3-Switch Adapter

Switch Cable length = 50 cm



User's Guide

Introduction

The Thomson Automation Wheels-up Switch for use with our Landing Gear Controllers is a light weight switch assembly that includes magnetically actuated reed switches with matching magnets for sensing that the landing gear is retracted. When used with our Landing Gear Controllers, the doors will wait until the wheels are fully retracted before closing. This is especially useful in air systems that can retract at different speeds depending on air pressure, temperature and wind loading.

Connecting the switches

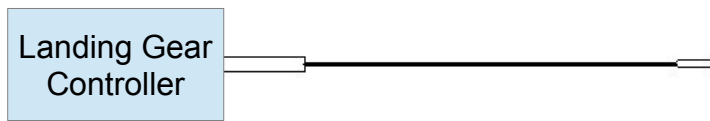
For monitoring one wheel, plug the switch directly into the Wheels-Up connector on the controller. If you want to monitor more than one wheel, use the multi-switch adapter. Using the adapter, up to three switches can be connected to the controller. A shorting jumper must be used on unused switch connections. Adapters can be plugged into other adapters to use more than 3 switches. See the connection diagrams on the next page. In the multi-switch configurations, all switches must be on to activate the wheels-up input to the controller.

Mounting the magnets

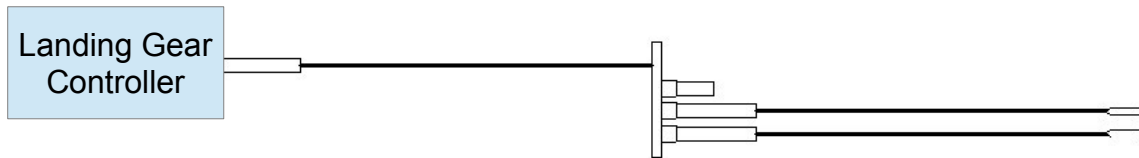
During operation, the magnet should lie parallel with the switch and be lined up in the middle of the switch. Try the operation to see how it works. Don't mount the magnet on magnetic or ferrous material. This will severely reduce the range of operation.

Setting Up The Landing Gear Controller

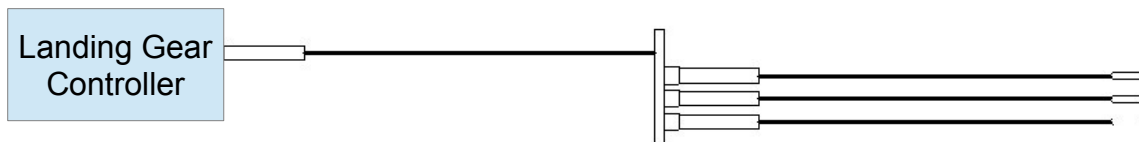
The wheels-up feature must be turned on in the Landing Gear Controller before the switches will have any effect. See the user's manual for the correct procedure. These can be downloaded from <http://www.thomson-automation.com>



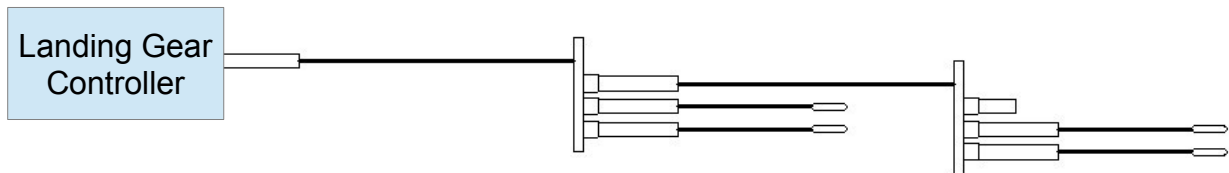
Connection for 1 wheels-up switch



Connection for 2 wheels-up switches



Connection for 3 wheels-up switches



Connection for 4 wheels-up switches