



POSITION SENSORS

Clippard stainless steel pneumatic cylinders that are equipped with an internal magnet can be used with the Reed Switch and GMR Sensor. By accurately sensing the magnetic field of the piston when it passes beneath the sensor, the position of the rod piston is determined, and the feedback signal is created. Use of this option may add to the overall length of the cylinder. See specific cylinder listings on the following pages for availability and details of the overall length adder.

GMR (Giant Magneto Resistive) Sensor

Clippard's GMR sensor is a solid-state device that is made up of alternating layers of conductive magnetic and non-magnetic materials. When a magnetic field is applied, there is a large drop in resistance. This decrease produces a signal that can be used to determine the location of the piston.

Some of the benefits of GMR technology include small size, high durability, high sensitivity, high response time, low power consumption and low cost. These benefits make this sensor a clear choice for piston location in pneumatic system control.

A 1/2" minimum stroke is required when multiple sensors are used.



Reed Switch



Clippard's Reed Switch is a Single Pole, Single Throw (SPST) Normally-Open electronic switch. When the cylinder's magnet-equipped piston moves to a location where the magnet is positioned below the Reed Switch, the Switch sends a feedback signal to indicate the location of the piston.

A 1/2" minimum stroke is required when multiple switches are used.

ACCESSORIES

Mounting Hardware

For efficient power and easy mounting, Clippard has designed and manufactured brackets suitable for each cylinder shown in this catalog.

These products are shown on the last page of each corresponding bore size and include clevis mounting brackets, foot mounting brackets, rod clevis assemblies and rod eye assemblies. Extra mounting nuts are available.

