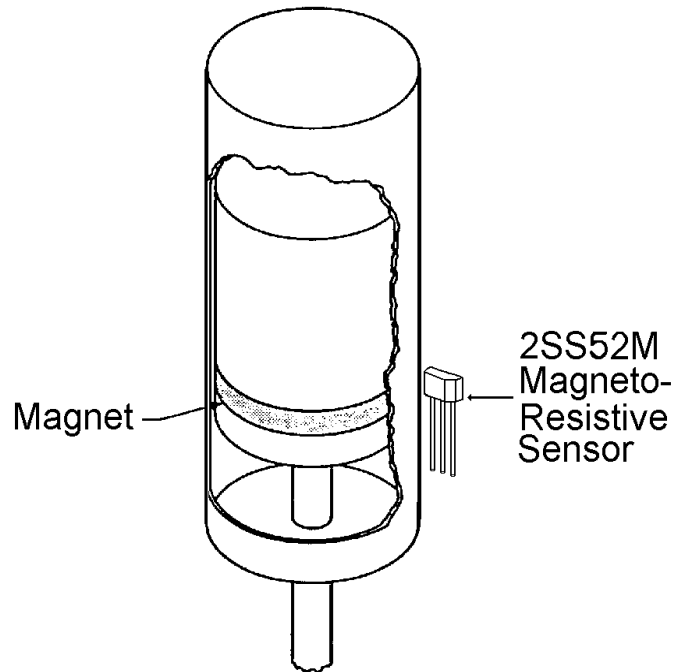


Pneumatic Cylinder Position Sensing

SOLID STATE
AP 00240



PRODUCT

2SS52M low gauss magneto-resistive sensor

APPLICATION DESCRIPTION

The sensor is used to detect the piston's position inside a cylinder. An inexpensive plastic magnet can be used on the piston ring which the magnetic sensor can detect through a 1/4 inch thick aluminum wall. A wiring harness was furnished with the chip for value added benefits. This low gauss MR sensor will work where standard hall sensors do not give a long enough sensing distance.

ADVANTAGES

MR sensors have higher sensitivity, lower gauss operation, and greater sensing distances than standard Hall Effect sensors. Furthermore, a lower cost magnet can be used in the application. Unlike reed switches, MR sensors contain no moving parts so they have a higher reliability, faster response time, and no false signaling due to contact bounce.