

Application

Indication of pneumatic cylinder piston position

Industry

- Handling machinery
- Robotics

Application Overview

In many applications pneumatic (aka air) cylinders are used to impart a force or move something in a certain direction. It can be useful to have a sensor to indicate the position of the piston so that it's known where the cylinder is in its stroke.

Application Challenges

Most pneumatic cylinders are designed with openings such as T-slots or C-slots so that sensors may be installed to detect the cylinder position. Various adapters and clamps are available to install sensors into cylinders with special slots or no slots. The movement of the piston may be detected through the cylinder wall as long as the magnet system is compatible with the sensor.

Solution(s)

Baumer now offers magnetic cylinder sensors to fit all cylinders from Festo and SMC (the two market leaders) as well as cylinders from many other manufacturers. There are also accessories available that allow the sensors to be mounted to less common cylinders. The sensors in PNP or NPN output to provide longer life than similar reed output sensors. All sensors are rated IP67 for tough environments and an integral LED indicates the output state

Supporting Documentation

- Baumer Website: www.baumerelectric.com/usa



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