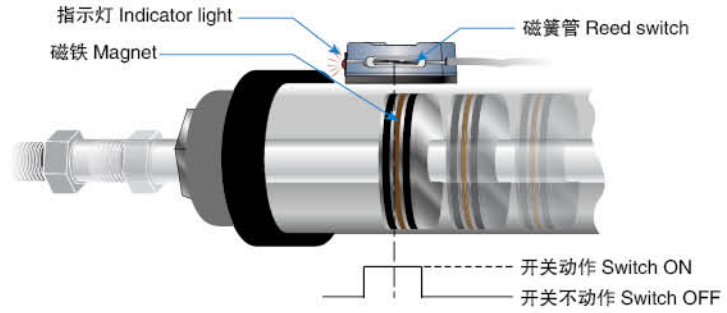
磁性开关的动作原理及装置 MAGNETIC SWITCH OPERATING & INSTALLING

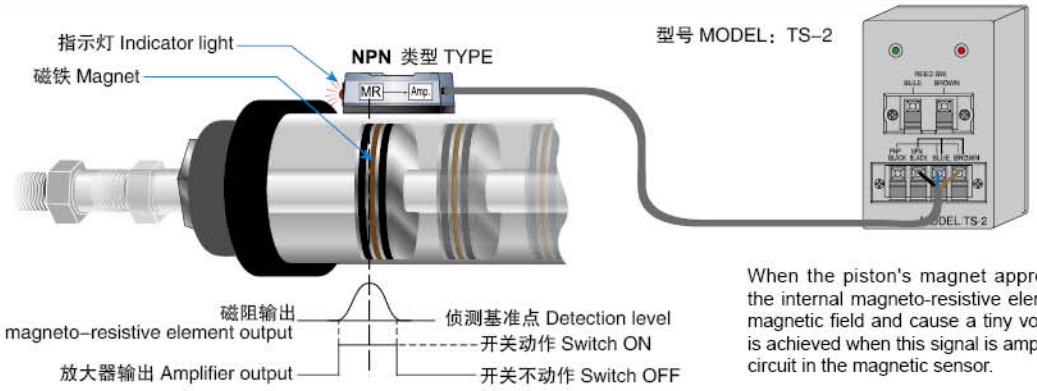
有接点式 REED SW. type



当气压缸作动，装置在活塞内的磁铁向磁性开关接近时，磁性开关内的磁簧管将会感应到磁场的变化，使磁簧管的接点闭合而导通电路。

When the piston's magnet approaches the magnetic sensor, the internal reed switch will detect the change of magnetic field and close the contacts.

无接点式 Solid state type



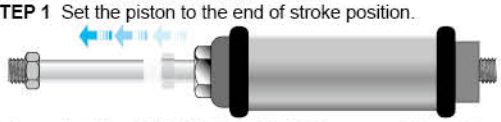
当气压缸作动，装置在活塞内的磁铁向磁性开关接近时，磁性开关内的磁阻将会感应到磁场的改变，并产生微量电压变化。透过内部集成电路的放大，推动晶体而导通电路。

When the piston's magnet approaches the magnetic sensor, the internal magneto-resistive element can detect the change of magnetic field and cause a tiny voltage change. Switching output is achieved when this signal is amplified by the operation amplifier circuit in the magnetic sensor.

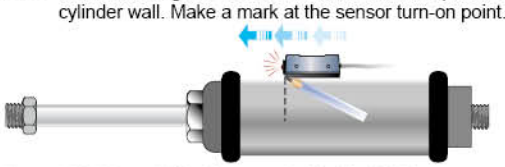
磁性开关的装置 How to install the Magnetic sensor

端点检知 END OF STROKE DETECTION

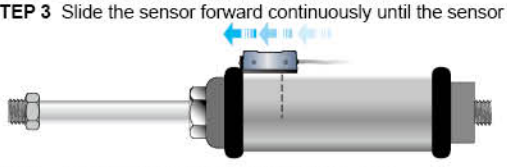
步骤 1 将气压缸的活塞推到端点的位置。
STEP 1 Set the piston to the end of stroke position.



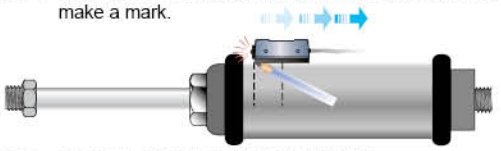
步骤 2 将磁性开关紧贴气压缸壁向前滑行，ON 时作一记号。
STEP 2 Slide the magnetic sensor forward and keep it close to the cylinder wall. Make a mark at the sensor turn-on point.



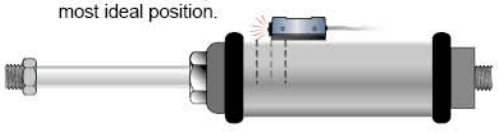
步骤 3 继续滑行至磁性开关 OFF 后，停止向前滑行。
STEP 3 Slide the sensor forward continuously until the sensor turns off.



步骤 4 倒退滑行待磁性开关再度 ON 时作一记号。
STEP 4 Slide the sensor backward until the sensor turns back on and make a mark.

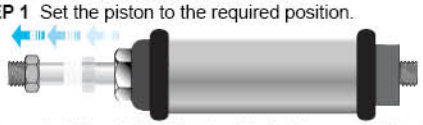


步骤 5 择 2 记号中间的位置即为最佳装置位置。
STEP 5 The intermediate position between the 2 marks will be the most ideal position.

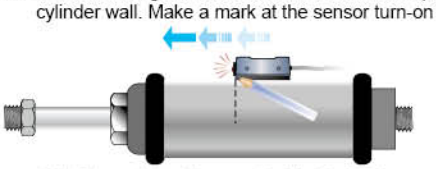


中点检知 INTERMEDIATE STROKE POSITION

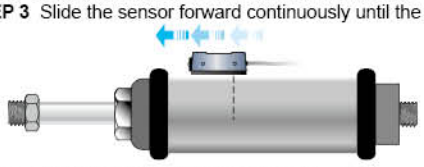
步骤 1 将气压缸的活塞推到欲检知的位置。
STEP 1 Set the piston to the required position.



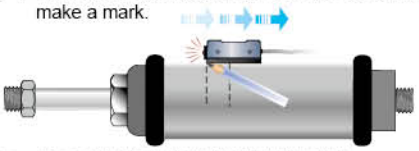
步骤 2 将磁性开关紧贴气压缸壁向前滑行，ON 时作一记号。
STEP 2 Slide the magnetic sensor forward and keep it close to the cylinder wall. Make a mark at the sensor turn-on point.



步骤 3 继续滑行至磁性开关 OFF 后，停止向前滑行。
STEP 3 Slide the sensor forward continuously until the sensor turns off.



步骤 4 倒退滑行待磁性开关再度 ON 时作一记号。
STEP 4 Slide the sensor backward until the sensor turns back on and make a mark.



步骤 5 择 2 记号中间的位置即为最佳装置位置。
STEP 5 The intermediate position between the 2 marks will be the most ideal position.