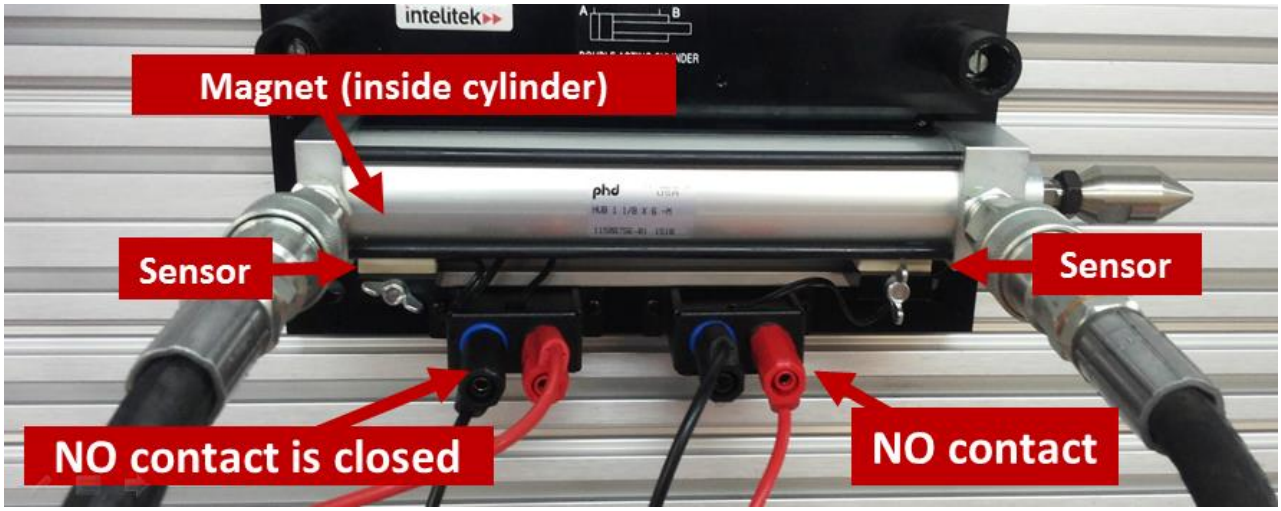
Magnetic Sensors for JMTS

INSTALLING THE MAGNETIC SENSORS

The pair of magnetic sensors (catalog #025323) can be used in conjunction with the pneumatic double-acting cylinder (#025311) or either of the hydraulic double-acting cylinders (#025402 or #025431).

The sensors have normally open contacts which close when they are in close proximity with a magnet. Each of the pneumatic and hydraulic cylinders has a magnet on the rod-end of the plunger/piston. The two sensors in your package are meant to be secured to either end of a cylinder's sensor slot so that they can monitor if the cylinder is fully extended or fully retracted.

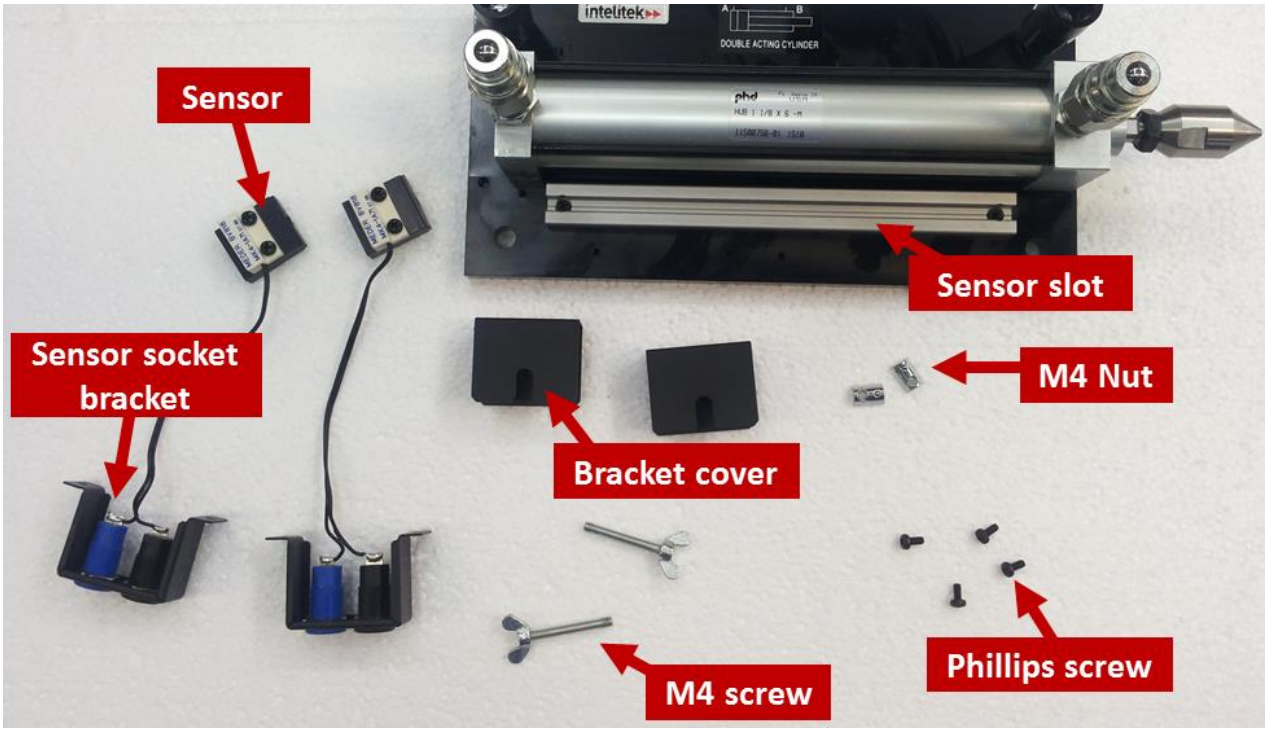


Note: You may have to adjust the sensors by moving them along the slot in order to find the exact location of the magnet when the cylinder is completely extended or retracted.

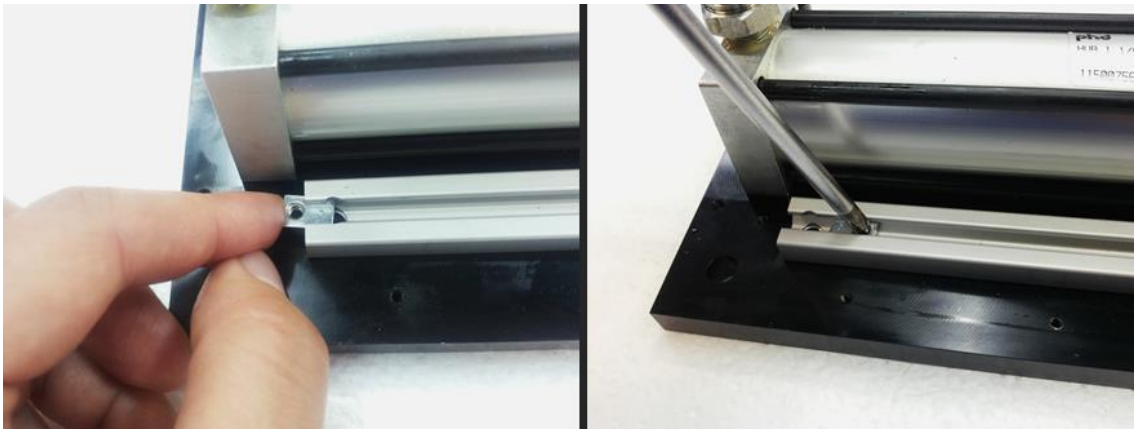
Note: If a sensor locks (i.e., the NO contacts remain closed even when the cylinder's magnet is no longer adjacent to the sensor) remove it from its slot and tap it gently with your finger. If the problem persists, the sensor should be replaced.

To install the magnetic sensors:

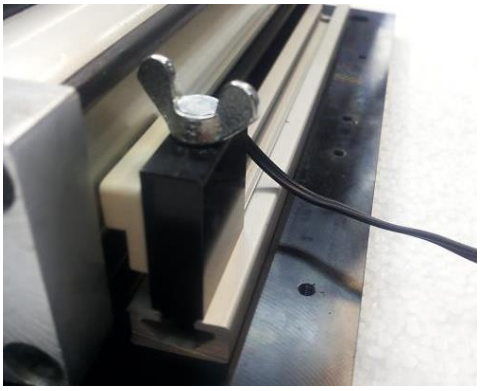
Refer to the image below.



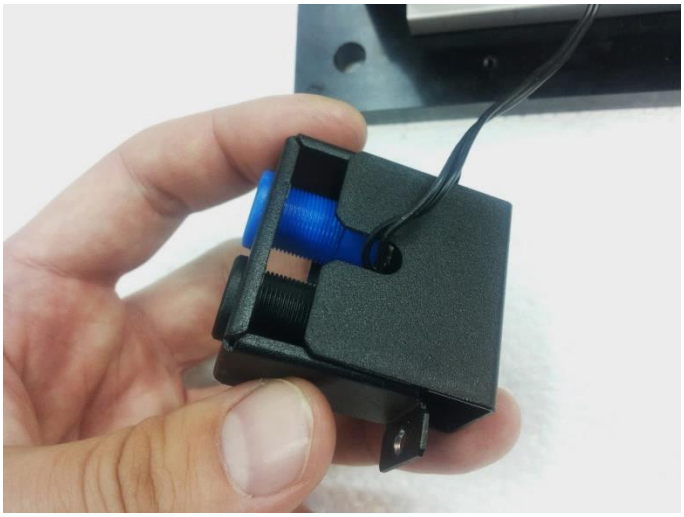
1. Insert the M4 nut into the sensor slot alongside the cylinder. You can use a Phillips-head screw driver to insert or position the nut.



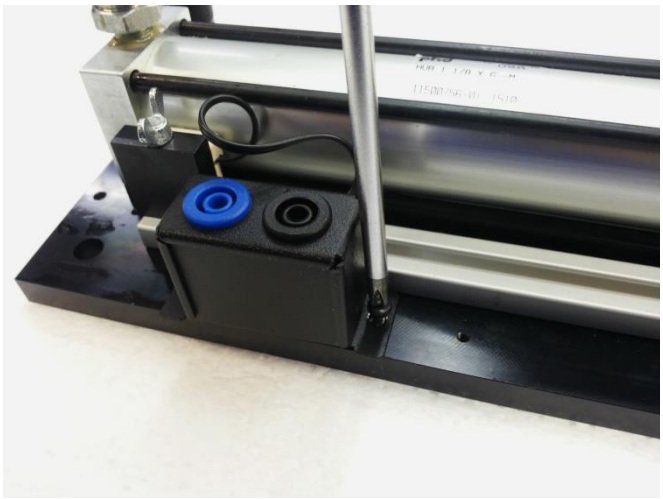
1. Fit the M4 screw through the bore in the (black) sensor housing, and attach it to the M4 nut in the slot. Position the sensor as desired (white sensor towards the cylinder), and tighten the screw.



2. Fit the bracket cover onto the sensor socket bracket.



3. Using two Phillips screws, attach the sensor socket bracket to the cylinder's mounting plate.



4. Repeat steps 1 through 4 for the second sensor.

APPLICATIONS

The following are two examples of the use of a magnetic sensor:

Operating a lamp or buzzer:

1. Connect either socket on a sensor directly to a 24V (red) socket on the operational module (or the power supply module).
2. Connect the other socket to a consumer such as a lamp or buzzer.

Sending a signal to a PLC:

1. Connect either socket on the sensor directly to a 0V (blue) socket on the operational module (or the power supply module).
2. Connect the other socket to a PLC module input socket.