

SM8-310 Magnetic Proximity Sensor

(April, 2019)

This sensor can be used in combination with Auber's counter or tachometer system. The signal output (black wire) will stay at high voltage level until the magnetic damper is detected. When the magnetic damper moved away from sensor, the output changes from low to high.

There is an internal red LED indicator in this proximity sensor. It turns on when the sensor detects the magnetic damper.

(Tip: The magnets have polarity. If the sensor's voltage doesn't change, or the LED indicator doesn't turn on as the magnet moves across the sensor tip, please flip the magnet's polarity and try again.)

Table 1. Specifications

Nominal sensing range (Sn.)	10 mm
Switching frequency	320 Hz
Operational voltage (U_e)	5 - 24VDC
Operational current (I_e)	50 mA
LED indicator	Red LED
Sensor total length	30 mm
Sensor diameter	8 mm
Cable length	1.2 M (4 ft)
Output type	3 wire NPN.
Operating status	NO.

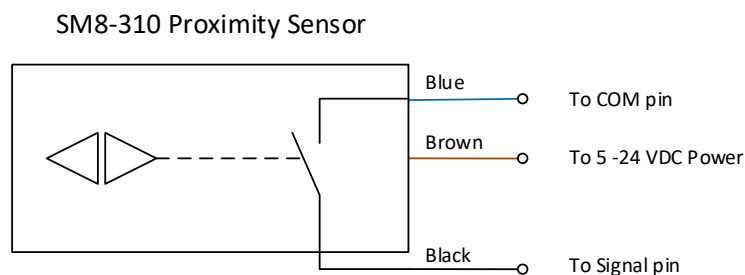


Figure 1. Pin assignment of SM8-310 proximity sensor.

Table 2. Connect SM8-310 to Auber's timer and tachometer.

SM8-310 Cable		ASL-51/ 52/ 53	ASL-62	ASL-41
Blue	COM (-)	Pin 4	Pin 4	Pin 3
Brown	DC power (+)	Pin 3	Pin 1 or 2	Pin 9 or 10
Black	Signal	Pin 5	Pin 9	Pin 1

Wiring Examples

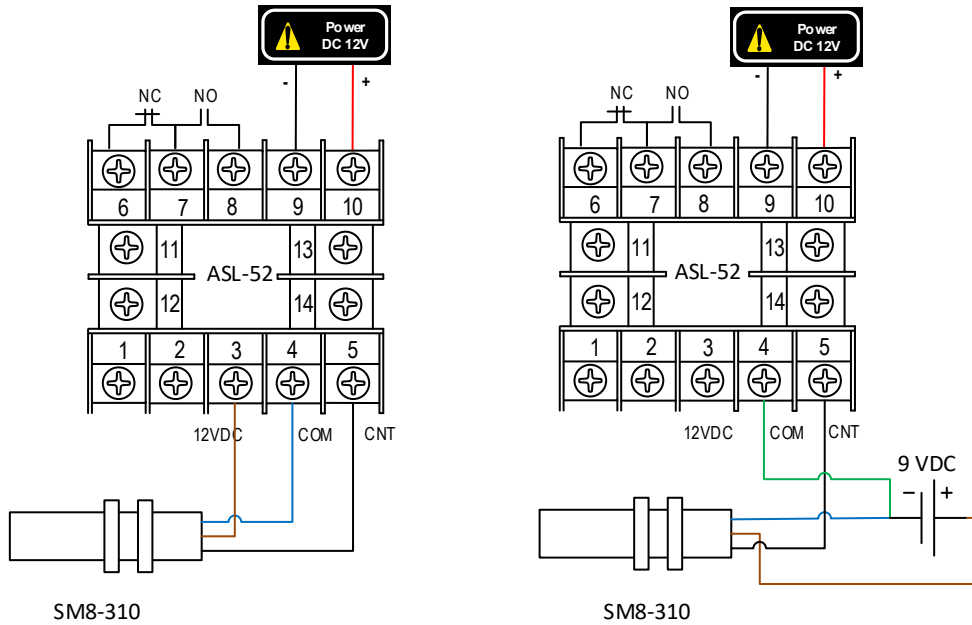


Figure 2. These diagrams show how to wire the SM8-310 sensor to ASL-52 tachometer. The wiring diagram on the left shows how to directly use the power supplied from the ASL-52. The diagram on the right shows how to use an external DC power source to drive the sensor. And in this case, a jumper wire (green) is needed to connect the COM pin to the negative of the external DC power source.

(END)