

THEORY - OPERATION OF ANGLE SENSOR

Measuring current:

The ammeter (A) is used to measure current at the angle input signal. Remove the wire from X1:29 terminal in the central unit and measure the current with the ammeter in series. The measurement should be between 4..20mA.

Measuring voltage:

The voltmeter (V) is used to measure voltage between pins X1:29 (angle signal) and X1:28 (gnd) on the main board (024-352-300-001 / 9333103287). The resistors are there to show that at 4mA the voltage is 1.1V because current multiplied with resistance equals voltage; therefore, 4mA x 275 ohms (total resistance) = 1.1V.

