

# THEORY - OPERATION OF PISTON SIDE LOAD SENSOR

## Measuring current:

The ammeter (A) is used to measure current at the piston side input signal. Remove the wire from X1:21 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 X1:21 (piston side signal) and X1:22 (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,  $4\text{mA} \times 275\text{ ohms}$  (total resistance) = 1.1V.

