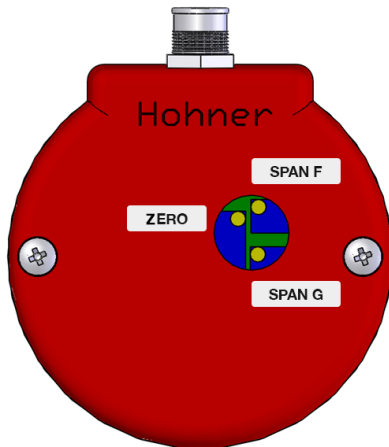


In order to configure the analog output range of a POT the circular cover at the top of the encoder must be removed with a flat screwdriver. Once removed the cover we see the following image:



Step 1. Set the maximum value of the analog output range

Ensure that the POT is mechanically at the maximum position of the application to be measured.

To obtain the maximum value of the voltage or current range, with the encoder at rest, turn the knob of the potentiometer indicated in red according to image 2, SPAN F according to the label.

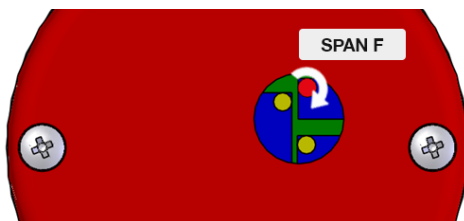


Image 2. Adjust potentiometer 1.

Step 2. Set the minimum value of the analog output range

Ensure that the POT is mechanically in the minimum position of the application to be measured.

To adjust the minimum level of the voltage range or output current, with the encoder at rest, turn the potentiometer screw red-marked according to the image 3, ZERO according to the label.

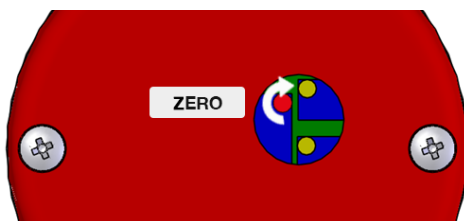
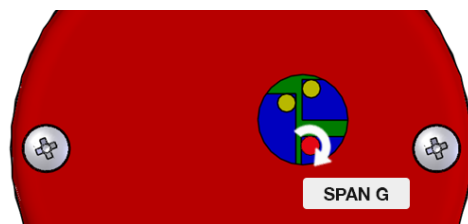


Image 3. Adjust potentiometer 2.

Step 3.

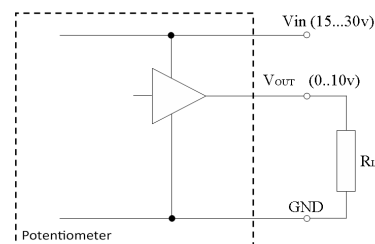
The image shows a third potentiometer, SPAN G according to the label, which must be adjusted to obtain the minimum and maximum values of the range, always with the encoder at rest. So we will only change the position of this third potentiometer if we can not adjust these values (minimum 0 VDC / 4 mA and maximum 10 VDC / 20 mA) with potentiometers 1 and 2 of the previous steps (images 2 and 3).

Once the maximum and minimum values of the analogue range have been adjusted, check again that they correspond to the respective maximum and minimum mechanical positions, and make a small reset, if necessary.



When this adjustment is made with the encoder out of the machine, it must be taken into account whether the analogue output is voltage (0 ... 10V) or current (4 ... 20mA). One option or another will be what determines where the multimeter is connected to perform voltage or current signal measurement, according to the following graphs.

Case 1. POT with voltage output (0 ... 10V). We must connect the multimeter by measuring the voltage of the load R_L , between lines V_{out} and GND.



Case 2. POT with intensity output (4 ... 20mA). We must connect the multimeter between I_{out} and V_{in} lines.

