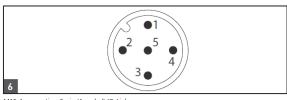
- 1, Set up the system according to the electrical sketch.
- 2, Configure the valve system with the help of the manuals:
 - BUS node: https://www.emerson.com/documents/automation/instruction-manual-bus-coupler-aes-valve-driver-av-profinet-io-aventics-en-6897242.pdf
 - Configuration files: https://www.emerson.com/documents/automation/configuration-files-for-profinet-io-aes-aventics-en-7428818.zip
 - 2Al2M12 https://www.emerson.com/documents/automation/manuals-guides-i-o-modules-aes-analog-2ai2m12-e-4ai4m12-e-2ai2ao2m12-ae-2ao2m12-e-4p4d4-4vp4d4-aventics-en-7593642.pdf
 - o note: you need to switch the parameter setting for the 2AI2M12 to 4...20mA!
 - 8DI8M8: https://www.emerson.com/documents/automation/instruction-manual-i-o-modules-aes-digital-aventics-en-6897250.pdf

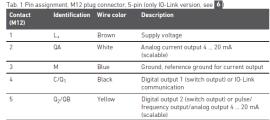
3, Set up the AF2 flow sensor with the help of the manual:

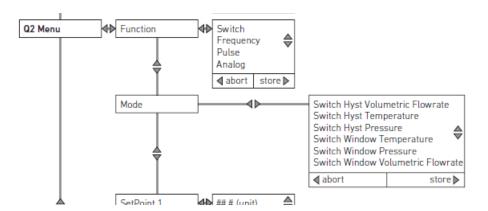
- AF2: https://www.emerson.com/documents/automation/operating-instructions-flow-rate-sensor-series-af2-aventics-en-6899510.pdf

Note: you need set up the Q2 output to analoge pressure, Qa should be the flow by factory default:



M12x1 connection, 5-pin (A-coded) IO-Link





4, Write the inital program to the PLC, in order to have a cylinders moving etc.