

## DAV TECH PROCESS SENSORS

### FLOW SENSOR

DAV Tech offers the possibility to monitor the passage of liquid products, such as oil, using a special flow sensor. The signaling of the passage occurs via a reed switch activated by a magnet, located on a piston moved by the pressure of the fluid in transit. The sensor measures a minimum pass of 10 mm<sup>3</sup>.

|                |                                  |                             |
|----------------|----------------------------------|-----------------------------|
| Technical Data | <b>Minimum flow rate reading</b> | 10 mm <sup>3</sup> /stroke  |
|                | <b>Power</b>                     | 8-28 VDC                    |
|                | <b>Connector</b>                 | M12x1                       |
|                | <b>Output signals</b>            | NPN 2A N.O. - PNP 0.7A N.O. |
|                | <b>Max Flow Pressure</b>         | 7 bar                       |
|                | <b>Mediums</b>                   | Oil 32-220 Cst              |
|                | <b>Input / Output thread</b>     | 1/8 BSP                     |



### AIR BUBBLES DETECTOR

The detector allows to highlight the presence of an air bubble inside a tube without contact between the detector and the liquid. Using the technology of ultrasound is possible to control this important parameter of the process even in presence of aggressive fluids such as primers, glue, thread lockers etc. The sensor is available in 2 sizes to accommodate various sizes of pipe.

|                |                                |   |
|----------------|--------------------------------|---|
| Technical Data | <b>Reading</b>                 | Ultrasound Technology   |
|                | <b>Air bubbles sensitivity</b> | Reading with minimum size equal to 1/3 of the internal diameter of the tube |
|                | <b>Response time</b>           | Adjustable from 0.5 ms  |
|                | <b>Pipe size</b>               | 3-8 mm or 8-17 mm   |
|                | <b>Connector</b>               | M12 3-wire  |
|                | <b>Power supply</b>            | 12...30 VDC   |
|                | <b>Consumption</b>             | Max 50 mA   |



### PRESSURE SENSOR FOR HIGH VISCOSITY FLUIDS

The pressure sensor with diaphragm allows you an accurate control of the pressure changes within the circuit, even when dispensing products with a high reactivity such as silicones. The sensor, depending the model chosen, can provide an output signal 0-10Vdc or 4-20mA and is supplied complete with connector. You can also choose the reading range, which is available in various sizes from 0-10 to 0-300 bar.

|                |                              |   |
|----------------|------------------------------|---|
| Technical Data | <b>Housing material</b>      | Stainless steel AISI 304, Nylon 66F35V0           |
|                | <b>Material wetted parts</b> | Stainless steel 17-4PH                            |
|                | <b>Accuracy</b>              | +/- 0,5%  |
|                | <b>Response time</b>         | < 1 ms  |
|                | <b>Mounting position</b>     | Any   |
|                | <b>Detectable pressure</b>   | Depending on the model from 0-10 bar to 0-300 bar |

