

FLS-X-400 FLOW SENSORS

Properties

- Maximum pressure 400 bar
- To be used for break-monitoring of internally cooled tools
- Suitable for different flowrate measuring ranges
- Degree of protection IP67
- Compact design
- Simple installation

The flow sensors FLS-X-400 suit rough industrial conditions and are employed in combination with all ARTIS tool and process monitoring systems.



Illustration similar

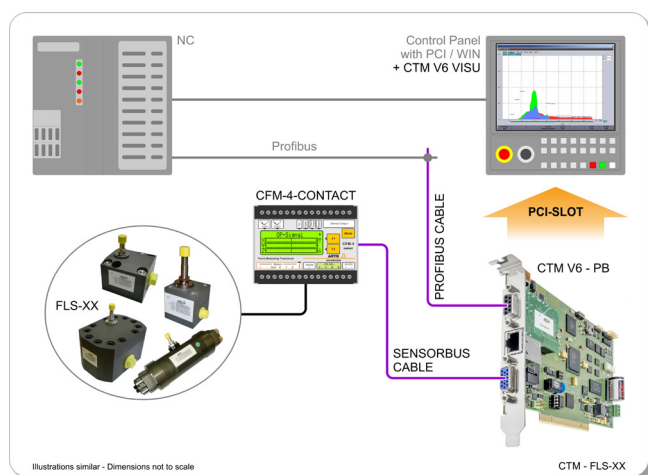
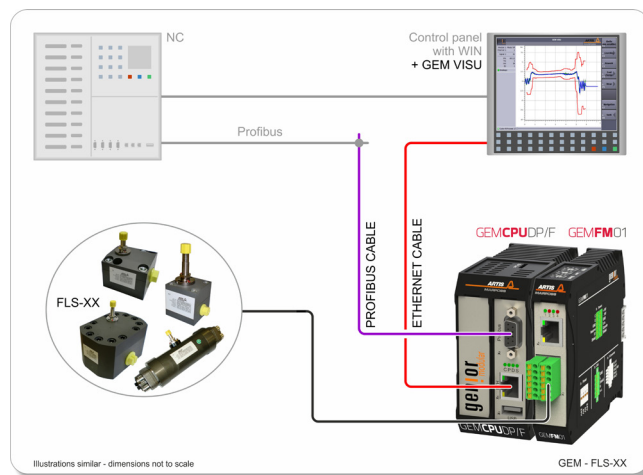


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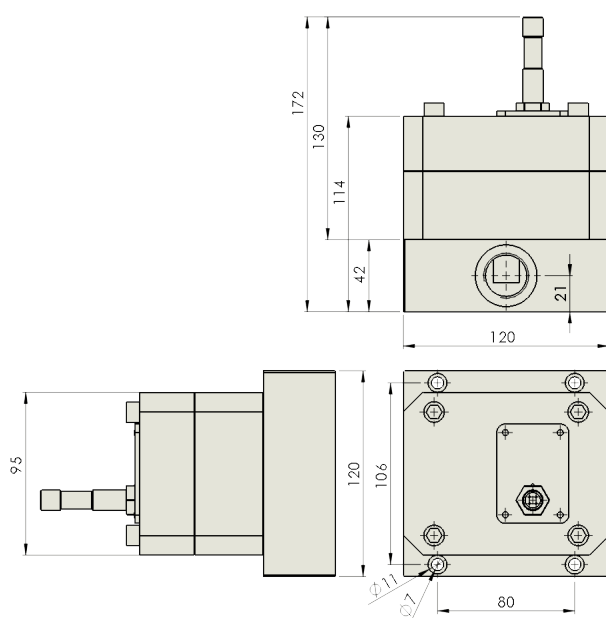
Application example:

FLS Flow Sensors with CFM-4 CONTACT Universal Measuring Transducer in the CTM Tool and Process Monitoring System.

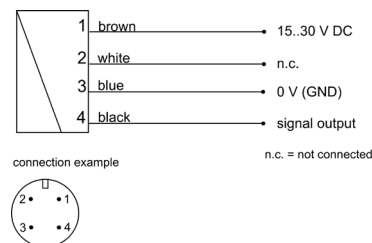


Application example:

FLS Flow Sensors with GEMFM01 Force Measuring Transducer in the GENIOR MODULAR Tool and Process Monitoring System.



Electrical connection diagram



| FLS-X-400 | |
|-----------|------------------------------------|
| CODE | 03PZ12110XX (XX = see variants) |

| VARIANTS | |
|-----------------------|---------------------------------------|
| FLS-2-400 | 03PZ1211010 |
| FLS-4-400 | 03PZ1211009 |
| FLS-8-400 | 03PZ1211008 |
| FLS-16-400 | 03PZ1211007 |
| FLS-60-400 | 03PZ1211006 |
| DIMENSIONS (SENSOR) | see drawing |
| DIMENSIONS (PLATE) | see drawing |
| MATERIAL | Cast iron with nodular graphite |
| WEIGHT (SENSOR) | 5.2 kg |
| WEIGHT (PLATE) | 4.0 kg |
| THREADED CONNECTION | |
| FLS-2/4/8/16-400 | G 3/8" |
| FLS-60-400 | G 3/4" |
| DEGREE OF PROTECTION | IP67, resistant to cooling lubricants |
| OPERATING TEMPERATURE | 0 °C ... +70 °C |
| VOLTAGE OUTPUT | 0 – 10 V |

| MEASURING RANGE | |
|-----------------------|---|
| FLS-2-400 | 0.008 – 2 l/min |
| FLS-4-400 | 0.02 – 4 l/min |
| FLS-8-400 | 0.04 – 8 l/min |
| FLS-16-400 | 0.16 – 16 l/min |
| FLS-60-400 | 0.3 – 60 l/min |
| ELECTRICAL CONNECTION | For round connectors M12 x 1, 4 poles, 10 m connecting cable (including connector) |
| VOLTAGE SUPPLY | 15 – 30 V |
| CHARGING RATE | < 20 mA (without load) |
| FREQUENCY | 0.2 cm³ = 1 pulse max. 500 Hz at 60 l/min |
| ACCURACY | 3 % of measured value (measured at a flow of 20 mm²/s) |
| REPEATABILITY | ± 0.3 % |
| USABILITY | Viscous fluid, self-lubricating media (technical soaps, pastes and non abrasive emulsions) |
| FILTER RANGE | < 30 µm |
| CONFORMITY | CE, UKCA |



Important notice!

Dirt particles must not get into the flow chamber, as this might cause the blockage of the gearwheels. It may therefore be necessary to install filters upstream of the sensor (mesh size < 30 µm).



www.marposs.com

For a full list of address locations, please consult the Marposs official website

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