

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

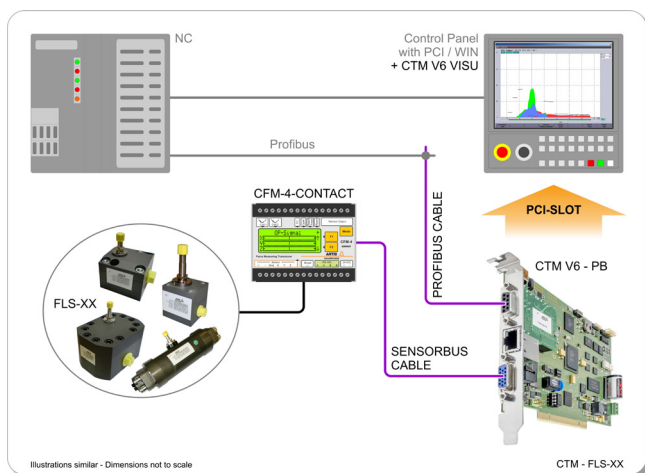
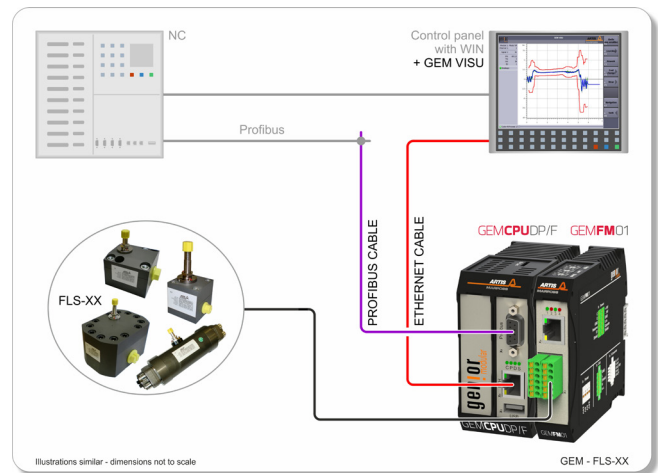
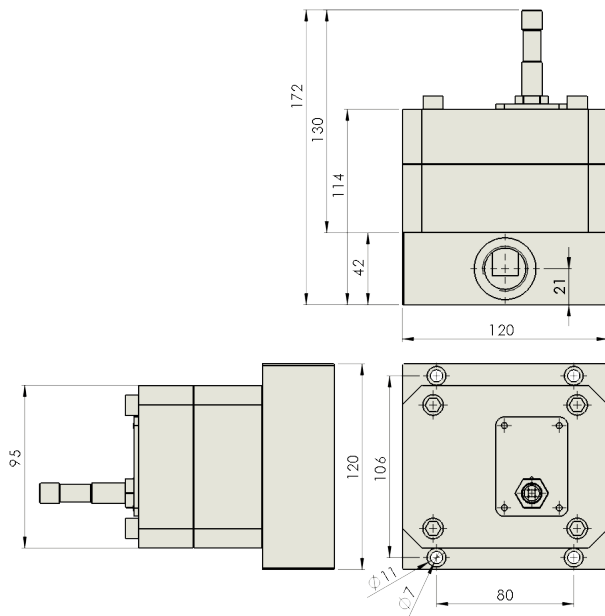


Illustration similar

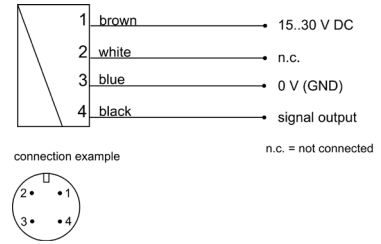
Application example:
FLS Flow Sensors with CFM-4 CONTACT Universal Measuring Transducer in the CTM Tool and Process Monitoring System.



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	O3PZ12110XX (XX = see variants)

VARIANTS	
FLS-2-400	O3PZ1211010
FLS-4-400	O3PZ1211009
FLS-8-400	O3PZ1211008
FLS-16-400	O3PZ1211007
FLS-60-400	O3PZ1211006
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 cm ³ = 1 pulse max. 500 Hz at 60 l/min
ACCURACY	3 % of measured value (measured at a flow of 20 mm ² /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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