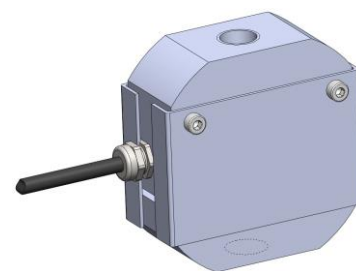


FTCS Series

S-tension/compression force sensor

Ref : 3301

Rev : D



DESCRIPTION

This type of very robust sensor is suitable for high-precision measurement on a test bench as well as in many industrial applications. Its level of protection allows it to be used in aggressive environments.

As an option, a high-level analog output integrated into the sensor gives it great versatility and ease of use and operation.

Mesurex is a sensor manufacturer. We can adapt most sensors according to your needs. Please [contact us](#).

MEASURING RANGES (MS)

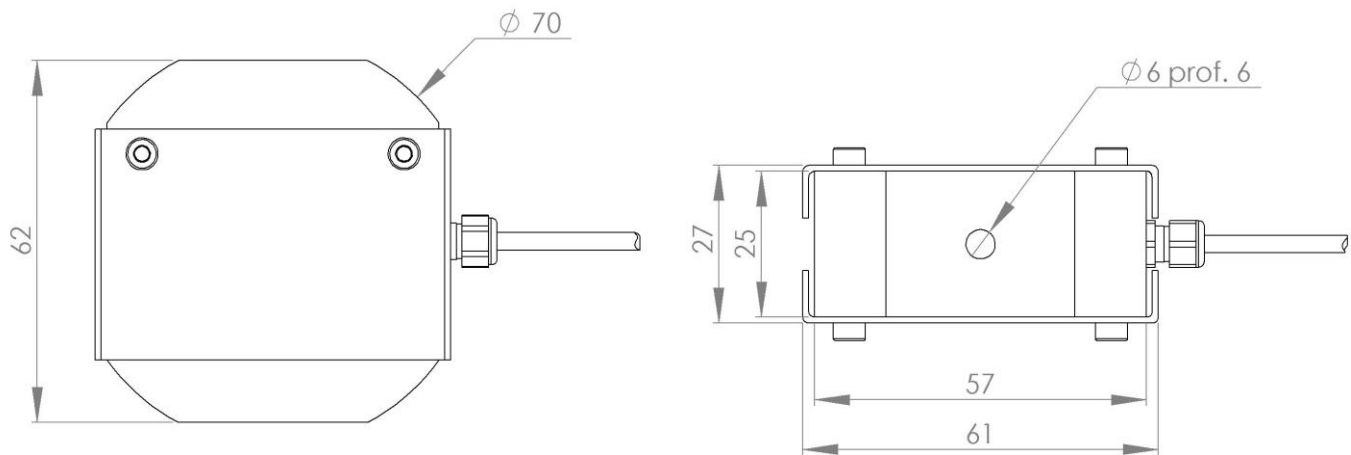
Measuring range in Newton	50	100	200	500	1000	2000	5000	10000
Max over range	1.5 x FSO	1.5 x FSO	1.5 x FSO	1.5 x FSO	1.5 x FSO	1.5 x FSO	1.5 x FSO	1.5 x FSO
Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Stainless steel	Stainless steel
Thread	M6 x 1	M6 x 1	M6 x 1	M12 x 1,5	M12 x 1,5	M12 x 1,5	M12 x 1,5	M12 x 1,5

TECHNICAL DATA

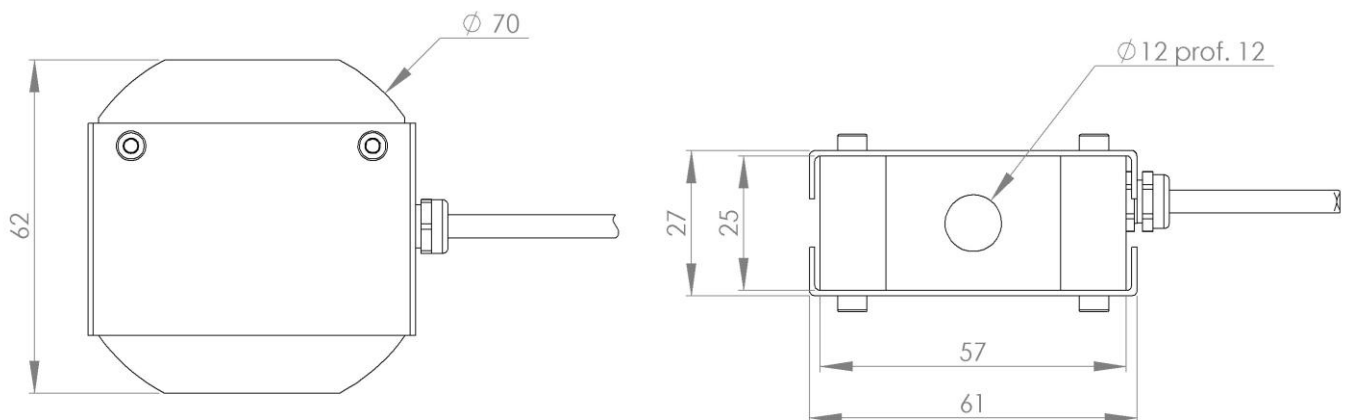
PARAMETERS	VALUES	NOTES
Supply voltage	10 Vdc	10 to 30Vdc in amplified version
Operating temperature	-20°C to 80°C	
Storage temperature	-30°C to 85°C	
Compensated temperature	0°C to 60°C	
Signal drift	<0.5% FSO / 60°C	Within the compensated range
Zero drift	<0.5% FSO / 60°C	Within the compensated range
Precision	± 0. 1%	
Linearity	± 0. 1%	
Hysteresis	± 0. 1%	
Sensitivity	2 mV/V	
Offset	± 0. 5% FSO	
Insulation	≥ 1000 MΩ at 50 Vdc	
Protection	IP50	
Threading	M6 x 1 M12 x 1,5	From 50 to 200 N From 500 to 10000 N
Input impedance	350Ω	
Output impedance	350Ω (gauge output) 1kΩ (amplified output)	0.5 to 4.5 V in amplified version
Exit	Cable	2m as standard
Calibration	Traction / Compression	
Material	Aluminum AU4G-T4 Stainless steel Z8CND17-04	From 50 to 2000 N From 5000 to 10000 N

DIMENSIONS

FTCS---NM 6-70

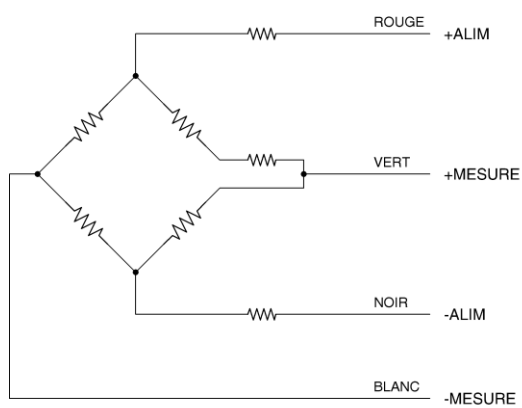


FTCS---NM12-70

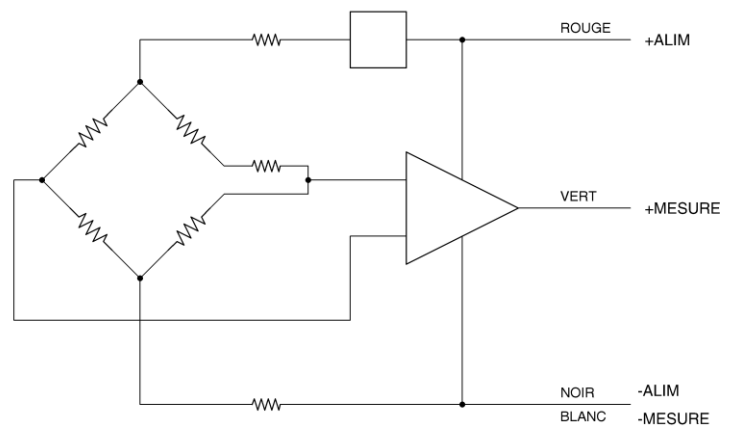


WIRING PLAN

FTCS



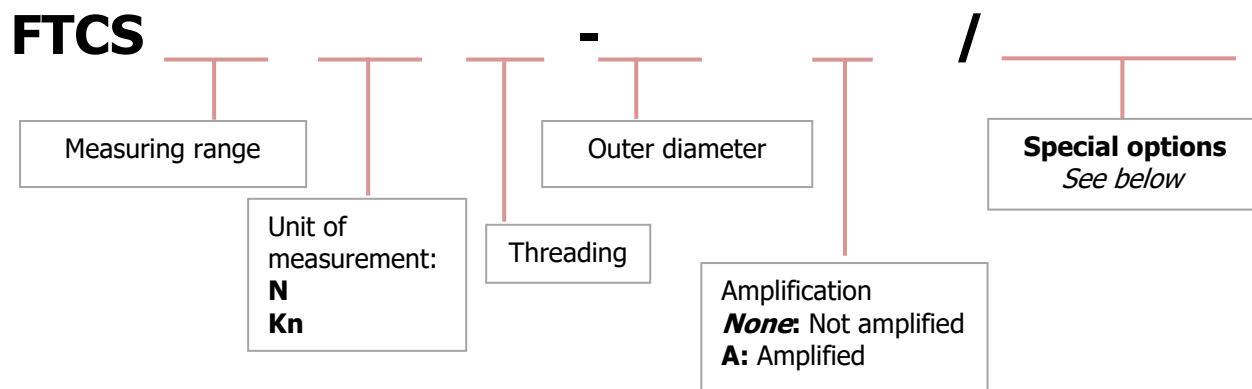
Gauge bridge output



Amplified output

ORDER INFORMATION

FTCS



- Special options

OPTION	INDICATION
Cable length	Length in meters (M) 2m as standard

Example: **FTCS50NM6-70**

- Measuring range: 50 N
- Thread: M6
- Outer diameter: \varnothing 70
- Unamplified
- Cable length: 2 meters

FTCS5KNM12-70A/1.5M

- Measuring range: 5000 N
- Thread: M12
- Outer diameter: \varnothing 70
- Amplified
- Cable length: 1.5 meters

CONTACT

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