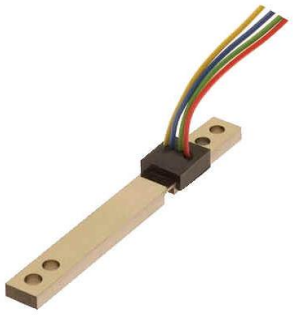
F1200

BENDING SENSOR

S100

APPLICATIONS

- Medical instrumentation force, displacement
- Acceleration Measurement
- Battery powered equipment
- Food dispensing equipment
- Robotics



DESCRIPTION

F1200-range sensors are designed to measure forces by operating on both bending directions, through a measuring range from 0.5N (full scale) to 125N P.E.

This is the first low cost range of sensors offering accurate readings. Features proposed by vaccuum-packed stress gauges are excellent, including exceptional long-lasting stability.

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TECHNICAL FEATURES

Capacity	0,5 – 1 - 2 – 5 – 10 – 20 – 50 – 125 N
Rated output	1mV/V nominal
Static overload (safe)	200% R.C.
Hysteresis	0.03% R.O.
Non repeatability	0.05% R.O.
Creep (30 min)	0.05% R.O.
Terminal resistance (input-output)	1000Ω
Temperature range	-10°C to +70°C
Temp. Effect on output	0,03% Reading/°C
Temp. Effect on Zero balance	0,03% R.O./°C
Exitation (recommended)	10 VDC ou VAC
Insulation Resistance	1000 GΩ à 50 VDC

Rated capacity (N)	**0 ,5**	**1**	**2**	**5**	**10**	**20**	**50**	**125**
Natural frequency (Hz)	80	130	180	350	500	590	830	TBD

E.M. (Newton)	Epaisseur (mm)	Déflexion (mm)
0,5	3,0	0,76
1	3,0	0,56
2	3,0	0,41
5	3,0	0,28
10	3,0	0,24
20	5,0	0,25
50	5,0	0,14
125	5.0	< 0,10

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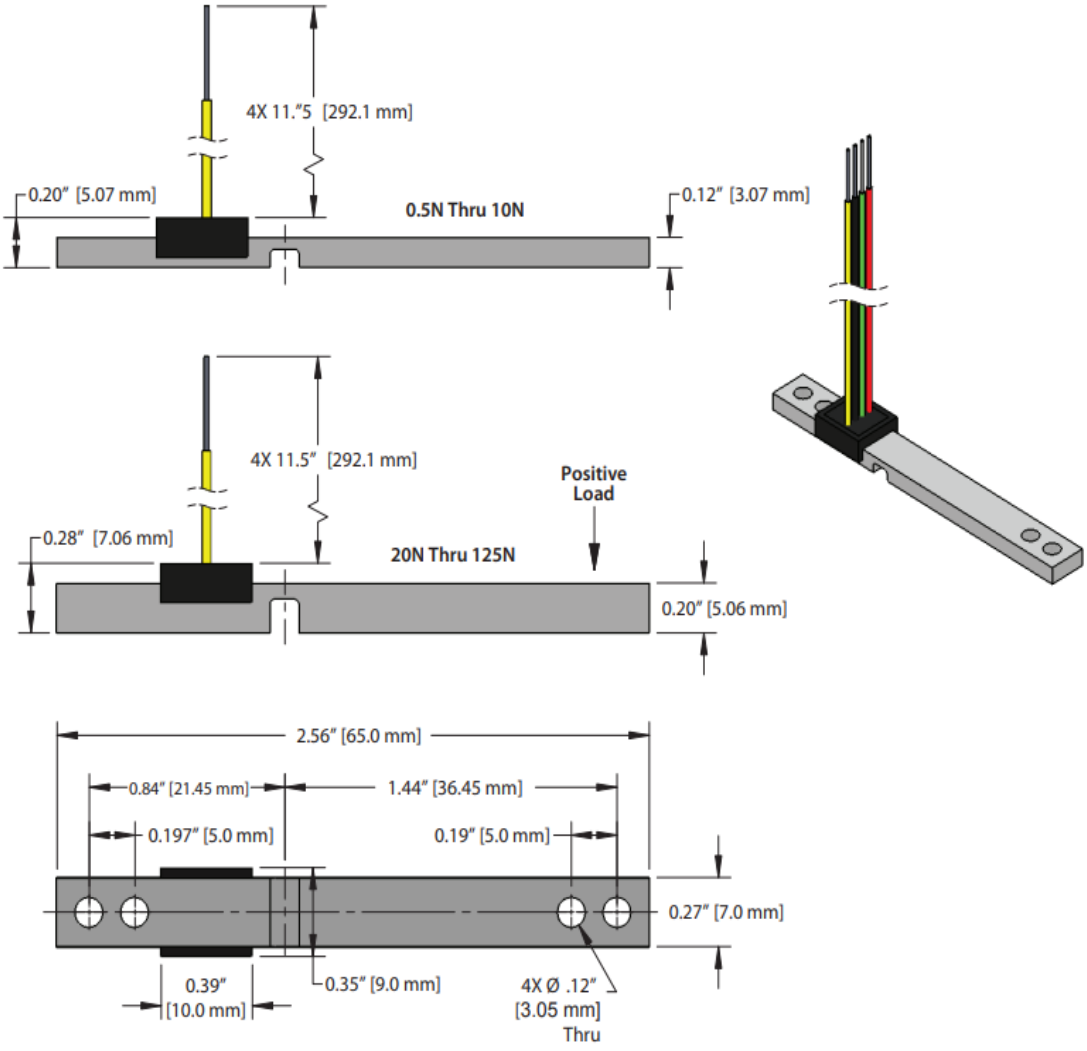
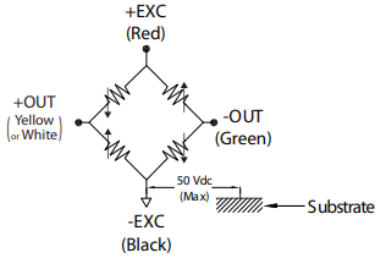
STANDARD DIMENSIONS





SPHEREL Systems reserves the right to make any kind of design or functional modification at any moment without prior notice.