FORCE TRANSDUCER

TENSION & COMPRESSION



- STAINLESS STEEL
- IP40 PROTECTION RATING

CE RoHS COMPLIANT REACH COMPLIANCE Dynamic Measurement Fully Laser Welded Stainless Steel IP67 ISO 376 REFERENCE STANDARD ISO 17025 ACCREDITED LABORATORY

NOMINAL LOAD (FS)

kg	kN	NET WEIGHT (kg)	DISPLAY (t)	RoHS	ISO 376
500	5.0	1.6	0.5000	•	•
1000	10	1.6	1.000	•	•
2500	25	1.6	2.500	•	•
5000	50	2.45	5.000	•	•
10000	100	2.45	10.000	•	•
20000	200	5.8	20.000	•	•
30000	300	5.8	30.00	•	•
50000	500	6.8	50.00	•	•
75000	750	16.5	75.00	•	•
100000	1000	16.5	100.00	•	•

TECHNICAL DATA

PRECISION

Accuracy	≤± 0.05% F. S
Adjustable Zero Function	± 10 % F. S
Combined error	/
Non-linearity	≤ ±0.05 %FS
Hysteresis	≤ ±0.05 %FS
Creep	±0.1 %FS
Temperature coefficient on zero	≤ ±0.028 %FS
Temperature coefficient on span	0.024 %FS/°C
Compensated temperature range	-10...+40 °C
Operating temperature range	-20...+70 °C
Reference Temperature	23 °C

ELECTRICAL PROPERTIES

Recommended Supply	12 Vdc
MAX. Electrical Input	25 mA
Insulation resistance	≥ 2 GΩ at 100 V
Recommended excitation voltage	max. 15 Vdc
Power Connector	MIL PT02E10-6P
Cable length	5 m

MECHANICAL PROPERTIES

Material	STAINLESS STEEL
Deflection at FN	~ 0.4 mm

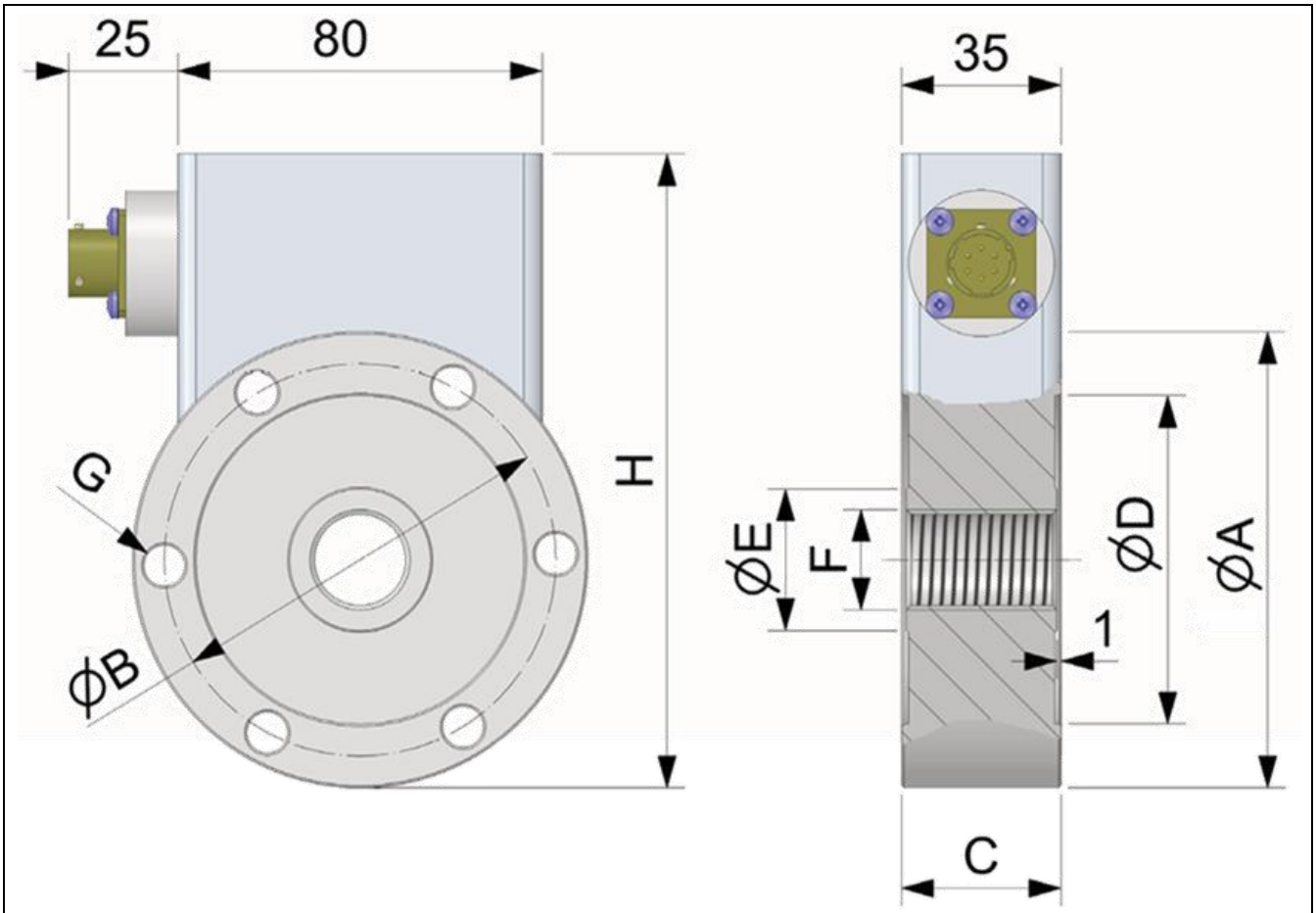
MECHANICAL LIMITS

Service load	120 %FS	Load without any permanent deformation or change in calibration.
Safe overload	150 %FS	The highest static load that may be applied once or briefly without mechanical damage.
Breaking load	> 300 %FS	Load at which permanent deformation or mechanical failure (fracture) occurs.
Max. transverse load (side)	100 %FS	Maximum lateral or shear load that can be applied (e.g. due to misalignment or friction).
Max. permissible dynamic load	75 %FS(1)	For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure.

Tests and calibrations performed in **COMPRESSION** with the transducer mounted on a bearing support with correctly tightened clamping screws.

(1) The dynamic load must be applied to the transducer central thread and not to the external fixing rim.

DIMENSIONS (mm)



Load	Ø A	B	C	Ø D	Ø E	F	G	N°G	H
0.5 – 2.5 t	100	86	35	72	32	M20 x 1.5	9	6	139
5 - 10 t	127	110	35	92	47	M30 x 2	10.5	8	166
20 - 30 t	165	138	50	108	62	M42 x 3	17	12	204
50 t	165	138	60	108	62	M42 x 3	17	12	204
75 – 100 t	230	185	80	145	98	M60 x 3	26	12	269

ELECTRICAL CONNECTIONS

Electrical Connections

PIN	INPUT	CABLE (optional)
A	POWER + (12Vdc)	Red
B	POWER - (GND)	Black
F	EARTH (1) ⏚	Shield

(1) Connected to the body of the transducer

COMPLIANCE AND CERTIFICATION

Protection Rating	IP67	
Compliance	CE, RoHS, REACH	
Calibration	Factory-calibrated, ISO 17025 calibration available on request	
HS-CODE	9031.80.80	
Certifications	ISO 376	LAT Accredia calibration certificate ISO 376 or ASTM E74 for capacities from 1000 kg to 10000 kg
Certifications (on request)	✓	Accredia traceable calibration report