

FORCE TRANSDUCER

COMPRESSION



- STAINLESS STEEL
- COMBINED ERROR $\leq \pm 0.03\%$
($\leq 0.02\%$ AC0.5 on request)
- IP67 PROTECTION RATING



NOMINAL LOAD (FS)

kg	kN	NET WEIGHT (kg)	Display	Resolution(kG)			
500	5.0	1.6	0.5000	0.1	•	•	•
1000	10	1.6	1.000	1	•	•	•
2500	25	1.6	2.500	1	•	•	•
5000	50	2.45	5.000	1	•	•	•
10000	50	2.45	10.000	1	•	•	•
20000	100	5.8	20.000	1	•	•	•
30000	300	5.8	30.00	10	•	•	•
50000	500	6.8	50.00	10	•	•	•
75000	750	16.5	75.00	10	•	•	•
100000	1000	16.5	100.00	10	•	•	•



TECHNICAL DATA

PRECISION

Rated Output (C_n)	/
Zero Balance	$\pm 1 \%$
Combined error	/
	/
Non-linearity	$\leq \pm 0.05 \%FS$
Hysteresis	$\leq \pm 0.05 \%FS$
Creep	/
Temperature coefficient on zero	$\leq \pm 0.028 \%FS$
Temperature coefficient on span	$0.024 \%FS/^{\circ}C$
Compensated temperature range	$-10...+40^{\circ}C$
Operating temperature range	$-20...+70^{\circ}C$
Reference Temperature	$23^{\circ}C$

MECHANICAL PROPERTIES

Material	STAINLESS STEEL
Deflection at FN	$\sim 0.4 \text{ mm}$

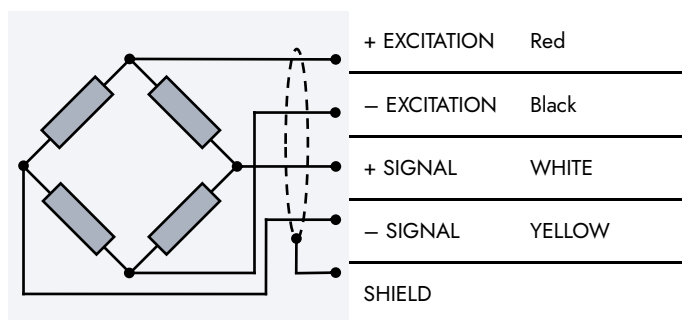
MECHANICAL LIMITS

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	For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure.

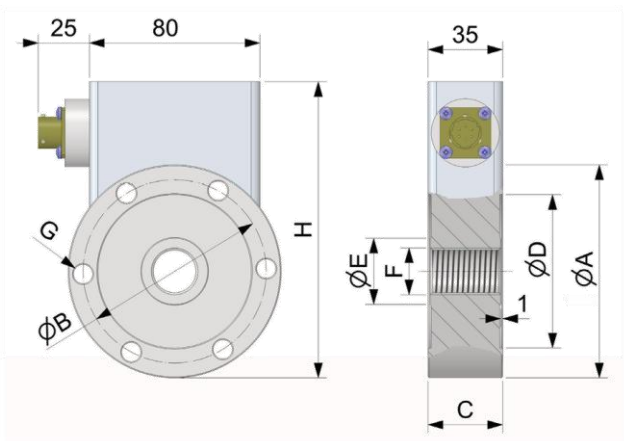
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 3-wire
Input resistance	
Output resistance	
Insulation resistance	$\geq 2 \text{ G}\Omega$ at 100 V
Recommended excitation voltage	max. 18 Vdc
Cable diameter	5.2 mm
Cable length	5 m

ELECTRICAL CONNECTION



DIMENSIONS



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



Optionals

SERIAL OUTPUT PROGRAMMABLE BAUD RATE	RS232C 38400,19200, 9600, 4800
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Electrical Connections

MIL6M	INPUT	CABLE (optional)
A	POWER +	Red
B	(12V dc) POWER	Black
C	- (GND) GND	Blue
D	RX	Yellow
E	TX	White
F	EARTH ⁽¹⁾ 	Shield

⁽¹⁾ Connected to the body of the transducer.

ELECTRICAL CONNECTIONS & OPTIONALS

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	 II 2G Ex ib IIC T5 Gb II 2D Ex ib IIIC T115°C Db



		LAT Accredia calibration certificate ISO 376 or ASTM E74 for capacities from 1000 kg to 10000 kg
Certifications (on request)		Accredia traceable calibration report

