

TENSION LOAD CELL





- COMBINED ERROR $\leq \pm 0.08\%$
- IP68 PROTECTION RATING
- AISI 420 STAINLESS STEEL





STAINLESS STEEL
AISI 420

NOMINAL LOAD (FS)

kg	N	Net weight (kg)				ISO 17025
30 000	3 000	11	•	•	•	(optional)
40 000	4 000	11	•	•	•	(optional)
50 000	5 000	11	•	•	•	(optional)
60 000	6 000	11	•	•	•	(optional)
100 000	10 000	22	•	•	•	(optional)
250 000	25 000	64	•	•	•	(optional)

ON REQUEST



TECHNICAL DATA

PRECISION

Rated Output (C _n)	1 mV/V ± 0.1 % at FS
Zero Balance	$< \pm 1$ mV/V
Combined error	$\leq \pm 0.08$ %FS
Non-linearity	$\leq \pm 0.06$ %FS
Hysteresis	$\leq \pm 0.06$ %FS
Repeatability	-
Creep	$\leq \pm 0.03$ %FS (at 30 min FS)
Temperature coefficient of zero	0.005 %FS/°C
Temperature coefficient of span	0.005 %FS/°C
Compensated temperature range	-10...+50 °C
Operating temperature range	-20...+70 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	AISI 420 stainless steel
Deflection at FN	~ 0.3 mm

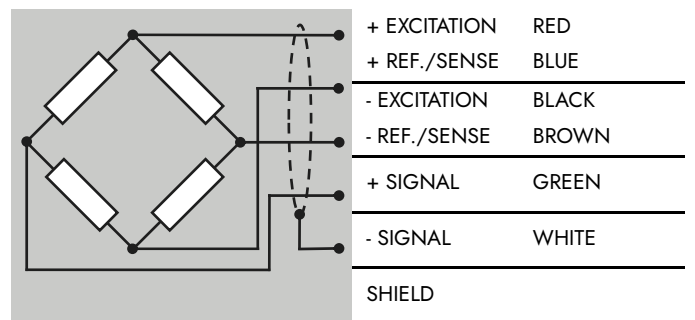
MECHANICAL LIMITS

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)	50 %FS	Maximum lateral or shear load that can be applied (e.g. due to misalignment or friction).
Max. permissible dynamic load	70 %FS	For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure. The dynamic load must be applied to the transducer central thread.

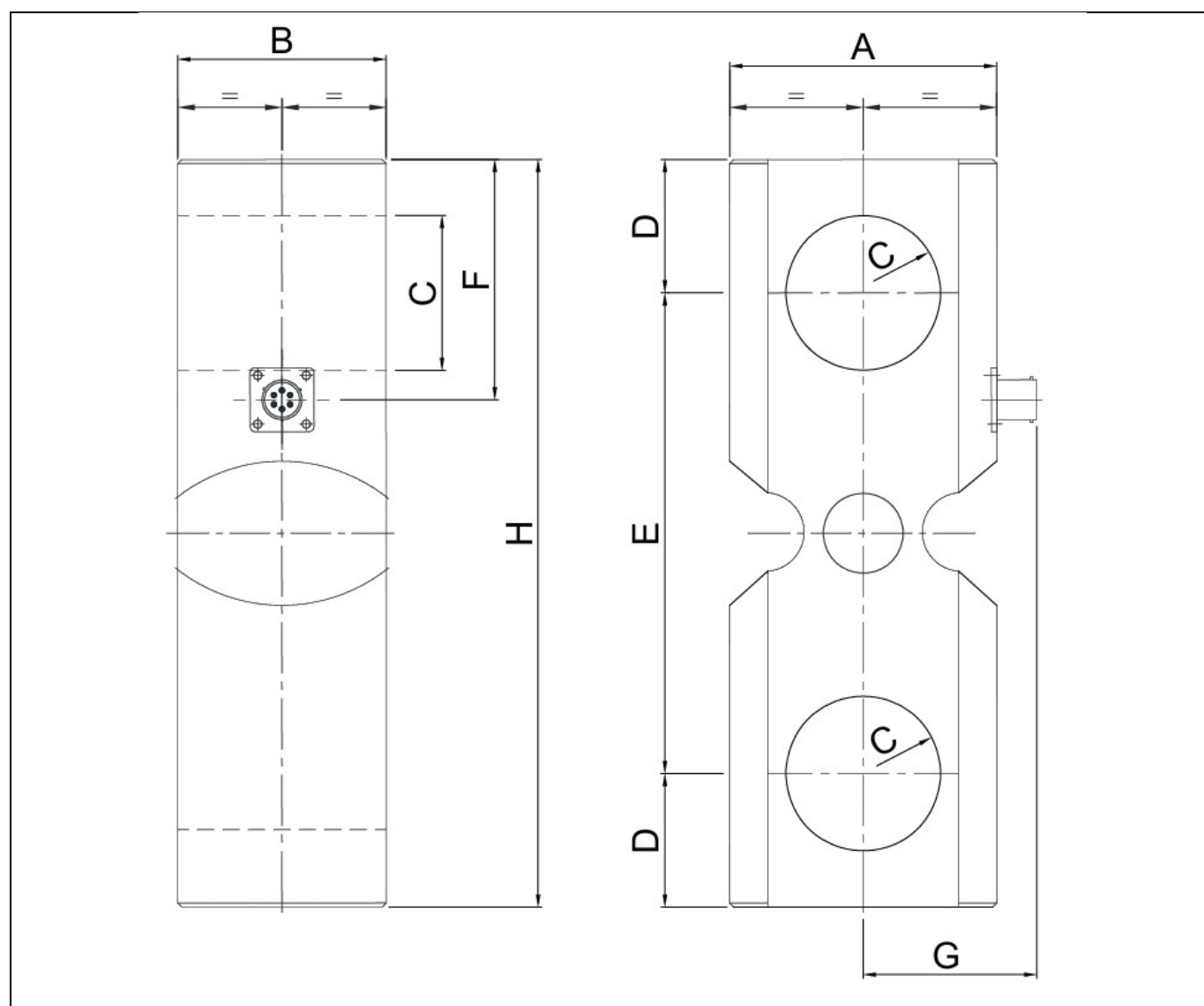
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	350 $\pm$ 20 Ω
Output resistance	350 $\pm$ 5 Ω
Insulation resistance	$\geq 5,000$ M Ω at 100 V
Recommended excitation voltage	≤ 15 V
Cable diameter	6 mm
Cable length	10 000 mm

ELECTRICAL CONNECTION



DIMENSIONS (mm)



	30 000 – 60 000 kg	100 000 kg	250 000 kg
A	100	127	240
B	78	88	110
C	Ø 58	Ø 71	Ø 102
D	50	70	120
E	180	200	360
F	90	120	185
G	65	68	136
H	280	340	600



COMPLIANCE AND CERTIFICATION

Protection Rating	IP68 according to IEC 60529	
Compliance	CE, RoHS, REACH	
Calibration	Factory calibrated, ISO 17025 calibration available on request	
HS-CODE	9031.80.80	
Certifications		OIML R60 C3
		Complies with the Eurasian Customs Union regulations
		Equivalent of the CE marking for the United Kingdom
Certifications (on request)		LAT Accredia calibration certificate ISO 376 or ASTM E74 <u>for capacities from 1000 kg to 10000 kg</u>
		ATEX II 1GD (zone 0-1-2-20-21-22)
		IECEx (zone 0-1-2-20-21-22)
		Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres
		Accredia traceable calibration report

