

TENSION LOAD CELL



- COMBINED ERROR $\leq \pm 0.08\%$
- IP67 | IP68 PROTECTION RATING
- 17-4 PH STAINLESS STEEL

CE

UKCA

IECEx



EACEx







EAC





STAINLESS
STEEL
17-4 PH





NOMINAL LOAD (FS)

kg	N	Net weight (kg)			EACEx	EAC	ISO 17025	Rated Output (mV/V)
30 000	3 000	11	•	•	•	•	(optional)	1 ±0.1%
40 000	4 000	11	•	•	•	•	(optional)	1 ±0.1%
50 000	5 000	11	•	•	•	•	(optional)	1 ±0.1%
60 000	6 000	11	•	•	•	•	(optional)	1 ±0.1%
100 000	10 000	22	•	•	•	•	(optional)	1 ±0.1%
250 000	25 000	64	•	•	•	•	(optional)	1 ±0.1%

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	-20...+70 °C
Operating temperature range	-30...+90 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	17-4PH stainless steel
Deflection at FN	~ 0.3 mm

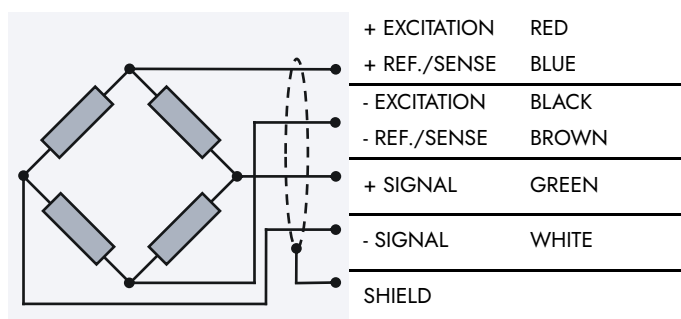
MECHANICAL LIMITS

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.

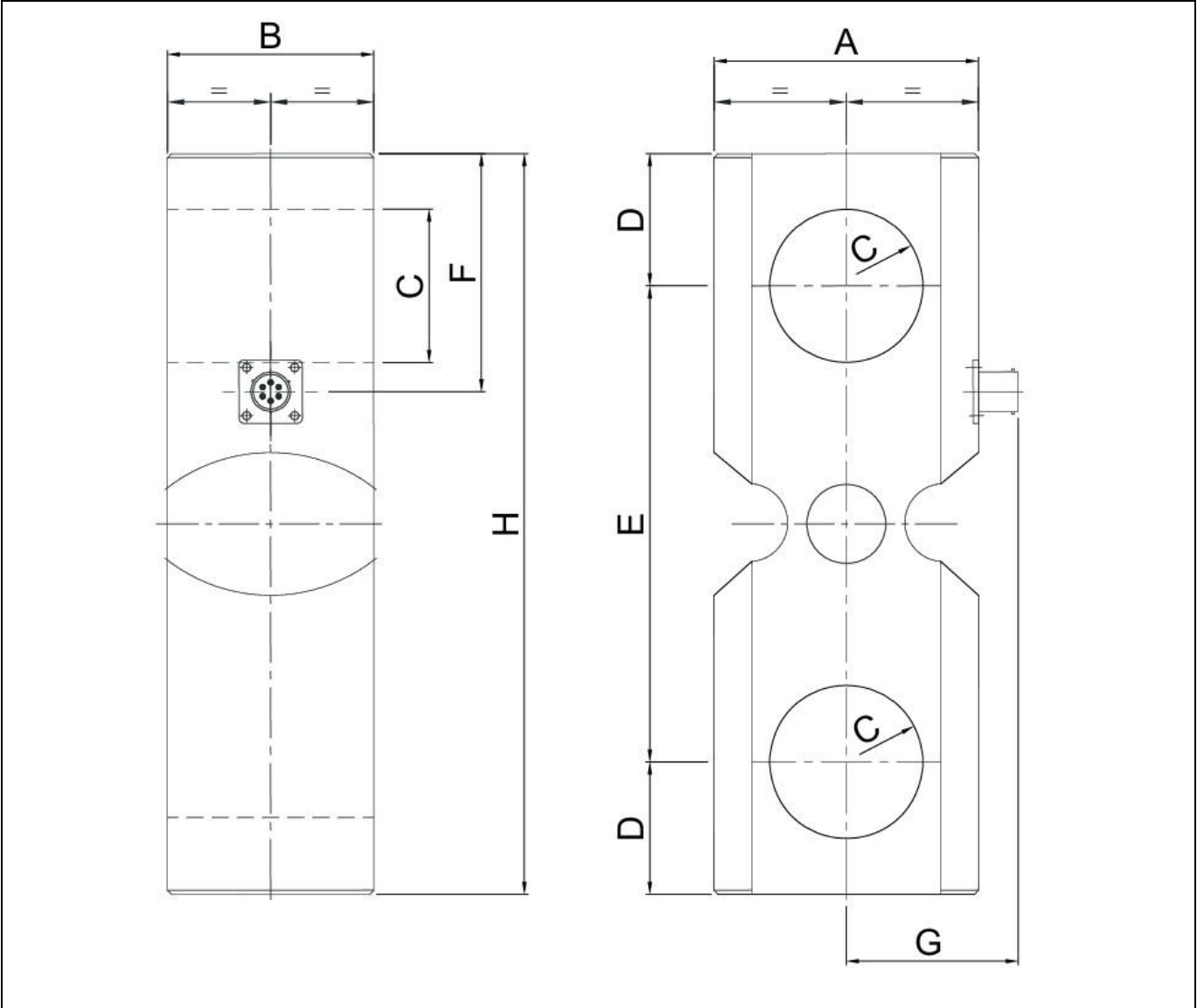
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	350 ± 20 Ω
Output resistance	350 ± 5 Ω
Insulation resistance	$\geq 5,000$ M Ω at 100 V
Recommended excitation voltage	≤ 15 V
Cable diameter	6 mm
Cable length	10 m
Cores	6 x 0.14 mm ²

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 and IP67	
Compliance	CE, RoHS, REACH	
Calibration	Factory calibrated, ISO 17025 calibration available on request	
HS-CODE	9031.80.80	
Certifications		Complies with the Eurasian Customs Union regulations
		Equivalent of the CE marking for the United Kingdom
Certifications (on request)		Accredia traceable calibration report
		ATEX (zone 2-22)
		ATEX/IECEx (zone 1-21)
		Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres
		Complies with Chinese market regulations for use in potentially explosive atmospheres

