

ANCHOR LOAD CELLS

COMPRESSION



- LOW PROFILE
- 17-4PH STAINLESS STEEL | 1.4542
- COMBINED ERROR $\leq \pm 0.1 \%$
- IP68 PROTECTION RATING

CE

RoHS COMPLIANT

REACH COMPLIANCE

IP68

STAINLESS STEEL

17-4PH | 1.4542

Ex ATEX

IECEx

EAC

Ex NEPSY

EACEx

DYNAMIC MEASUREMENT

FULLY LASER WELDED

ISO 17025 ACCREDITED LABORATORY

UKCA

NOMINAL LOAD (FS)

kg	kN	Ø Internal	Ø External	Net weight (kg)	Combined error	ISO 17025	Rated Output (mV/V)
30 000	300	50 mm	163 mm	5	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
50 000	500	50 mm	163 mm	5	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
75 000	750	50 mm	163 mm	5	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
50 000	500	75 mm	163 mm	5	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
75 000	750	75 mm	163 mm	5	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
75 000	750	120 mm	229 mm	9	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
100 000	1 000	120 mm	229 mm	9	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
125 000	1 250	120 mm	229 mm	9	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
125 000	1 250	165 mm	275 mm	14	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
150 000	1 500	165 mm	275 mm	14	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
180 000	1 800	165 mm	275 mm	14	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
180 000	1 800	225 mm	320 mm	20	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$
250 000	2 500	225 mm	320 mm	20	$\leq \pm 0.1 \%$	(optional)	2.0 $\pm 0.1 \%$



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2.0 mV/V ± 0.1 % at FS
Zero Balance	$< \pm 1.0$ %
Combined error	$\leq \pm 0.1$ %FS
Non-linearity	$\leq \pm 0.071$ %FS
Hysteresis	$\leq \pm 0.071$ %FS
Creep	$\leq \pm 0.03$ %FS (at 30 min FS)
Temperature coefficient on zero	0.005 %FS/°C
Temperature coefficient on 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 1.4542
Deflection at FN	~ 0.4 mm

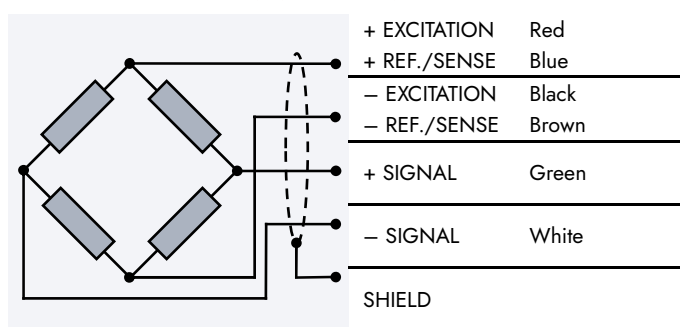
MECHANICAL LIMITS

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)	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.

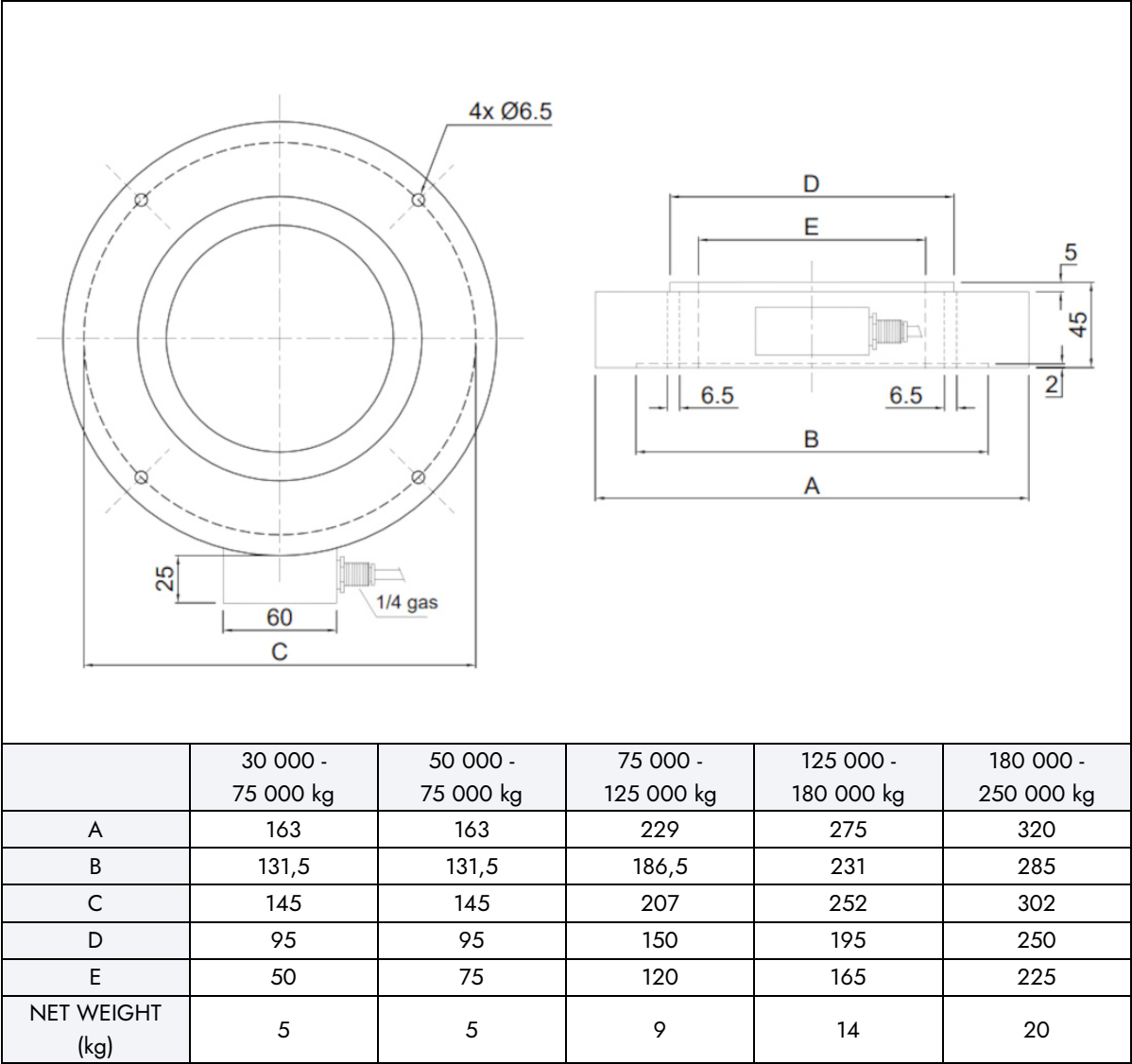
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	700 $\pm$ 20 Ω
Output resistance	700 $\pm$ 5 Ω
Insulation resistance	$\geq 5\,000$ M Ω at 100 V
Recommended excitation voltage	5 - 15 V
Cable diameter	5.0 mm
Cable length	5 000 mm

ELECTRICAL CONNECTION



DIMENSIONS (mm)



COMPLIANCE AND CERTIFICATION

Protection Rating	IP68 (IEC 60529)	
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)		Calibration Report
		ATEX (zone 2-22)
		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

COMPLEMENTARY ACCESSORIES

DESCRIPTION

- Galvanized steel plates for load distribution.



CODE: PIAS

