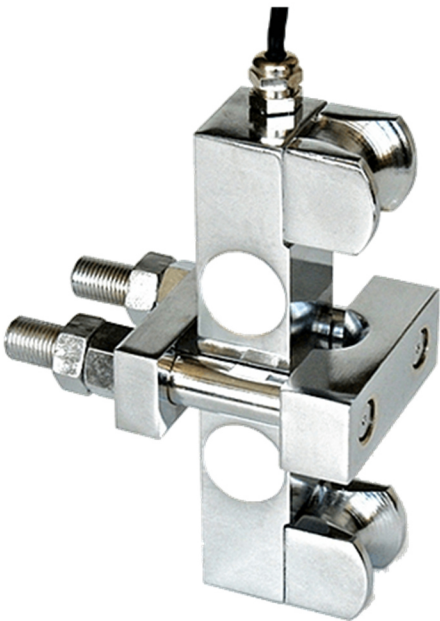


LOAD CELLS FOR WIRE ROPE MEASURING



- LOAD LIMIT ACCURACY $\leq \pm 2\%$
- IP67 PROTECTION RATING
- RAPID MOUNTING (also for retro fit)
- SUITABLE FOR LOAD LIMIT MEASUREMENT





NICKEL
PLATED STEEL
AISI 4140

NOMINAL LOAD (FS)

kg	kN	Net weight (kg)	DIAMETER ROPE (mm)				Rated Output (mV/V)
2 000	20	2.4	Ø 6 ÷ Ø 14	•	•	•	3 ±0.1%
4 000	40	2.4	Ø 10 ÷ Ø 18	•	•	•	3 ±0.1%
10 000	100	2.4	Ø 16 ÷ Ø 26	•	•	•	3 ±0.1%
20 000	200	7.5	Ø 24 ÷ Ø 36	•	•	•	3 ±0.1%
40 000	400	7.5	Ø 24 ÷ Ø 36	•	•	•	3 ±0.1%

ON REQUEST



TECHNICAL DATA

PRECISION

Rated Output (C_n)	3 mV/V ± 0.1 % at FS
Zero Balance	$< \pm 2$ %
Combined error	-
Non-linearity	-
Hysteresis	-
Load Limit Accuracy	± 2 %
Creep	$\leq \pm 0.03$ %FS (at 30 min FS)
Temperature coefficient of zero	0.005 %FS/°C
Temperature coefficient of sensitivity	0.005 %FS/°C
Compensated temperature range	-10...+50 °C
Operating temperature range	-30...+70 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	AISI 4140 nickel plated steel
Deflection at FN	0.5 - 1 mm

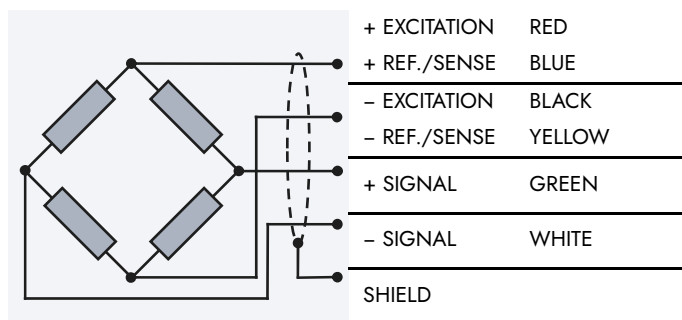
MECHANICAL LIMITS

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	> 200 %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.

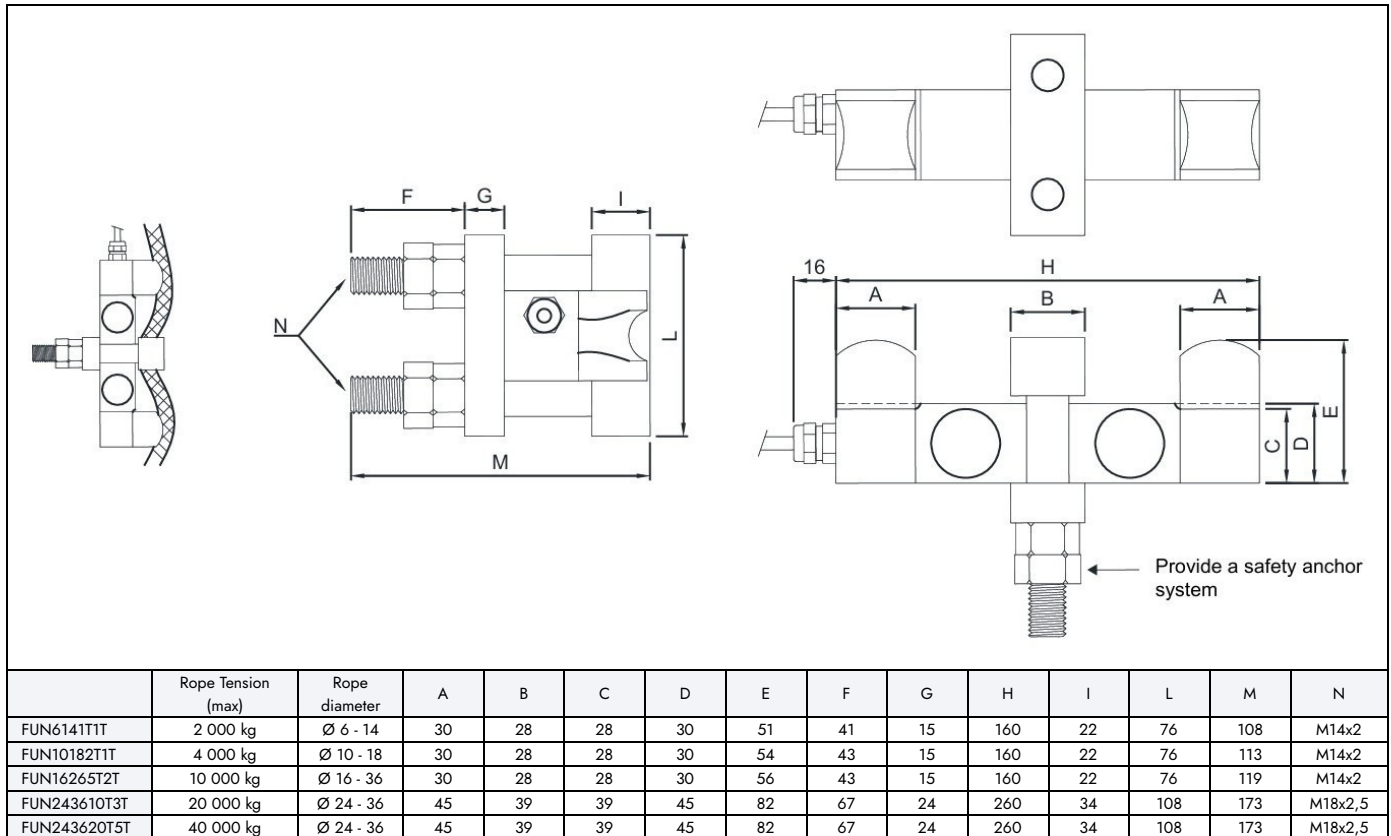
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	450/750/1050 $\Omega \pm 50$
Output resistance	350/700/1000 $\Omega \pm 20$
Insulation resistance	$\geq 5,000$ M Ω at 100 V
Recommended excitation voltage	≤ 15 V
Cable diameter	5 mm
Cable length	6 000 mm

ELECTRICAL CONNECTION



DIMENSIONS (mm)



SCREW TIGHTENING TORQUES													
Diameter of the steel cable (mm)	5	6 – 6.5	7 – 8	9 – 10	11 – 13	14	15 – 16	17 – 19	20 – 22	23 – 26	28 – 30	32 – 34	36 – 40
Tightening torque (Nm)	2.0	5.2	6.0	9.0	20	25	30	42	51	67	75	88	106



COMPLIANCE AND CERTIFICATION

Protection Rating	IP67 according to 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)		ATEX (zone 2-2)
		Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres
		Complies with Chinese market regulations for use in potentially explosive atmospheres

