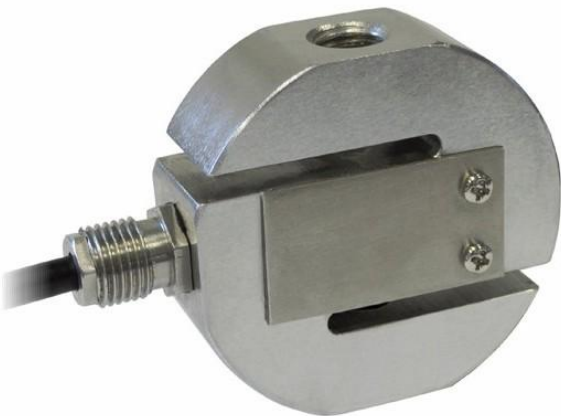


TENSION AND COMPRESSION LOAD CELL



Capacity from 50 kg to 300 kg



Capacity from 500 kg to 5000 kg



- STAINLESS STEEL AISI 420
- COMBINED ERROR $\leq \pm 0.03 \%$
- IP67 PROTECTION RATING

CE

RoHS COMPLIANT

REACH COMPLIANCE

IP67

STAINLESS STEEL

AISI 420

EAC

Ex

ISO 376
REFERENCE STANDARD

UK

CA

ISO 17025
ACCREDITED LABORATORY

Manufactured according to OIML R60 standards

NOMINAL LOAD (FS)

kg	kN	Net weight (kg)	Combined error	EAC	UK CA			Rated Output (mV/V)
50	0.5	0.7	$\leq \pm 0.03 \%$	•	•	•	•	2.0 $\pm$ 0.4%
100	1	0.7	$\leq \pm 0.03 \%$	•	•	•	•	2.0 $\pm$ 0.4%
200	2	0.7	$\leq \pm 0.03 \%$	•	•	•	•	2.0 $\pm$ 0.4%
300	3	0.7	$\leq \pm 0.03 \%$	•	•	•	•	2.0 $\pm$ 0.4%
500	5	0.7	$\leq \pm 0.03 \%$	•	•	•	•	2.0 $\pm$ 0.4%
1 000	10	1.4	$\leq \pm 0.03 \%$	•	•	•	•	2.0 $\pm$ 0.4%
2 500	25	1.4	$\leq \pm 0.03 \%$	•	•	•	•	2.0 $\pm$ 0.4%
5 000	50	2.7	$\leq \pm 0.03 \%$	•	•	•	•	2.0 $\pm$ 0.4%

ON REQUEST



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2.0 mV/V $\pm$ 0.4 % at FS
Zero Balance	< $\pm$ 2.0 %
Combined error	$\leq \pm$ 0.03 %FS
Non-linearity	$\leq \pm$ 0.021 %FS
Hysteresis	$\leq \pm$ 0.021 %FS
Creep	$\leq \pm$ 0.03 %FS (at 30 min FS)
Temperature coefficient on zero	0.0025 %FS/ $^{\circ}$ C
Temperature coefficient on span	0.0025 %FS/ $^{\circ}$ C
Compensated temperature range	-10...+40 $^{\circ}$ C
Operating temperature range	-20...+60 $^{\circ}$ C
Reference Temperature	23 $^{\circ}$ C

MECHANICAL PROPERTIES

Material	STAINLESS STEEL AISI 420
Deflection at FN	$\sim$ 0.4 mm

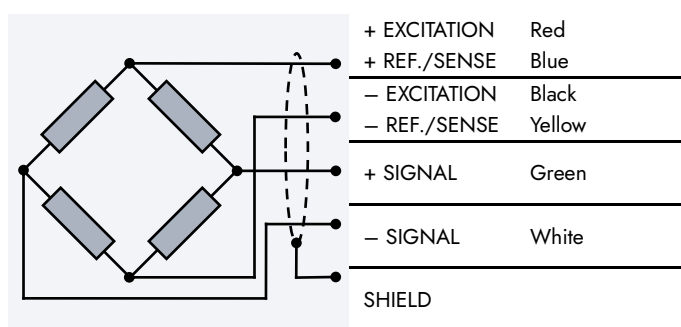
MECHANICAL LIMITS

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	> 350 %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.

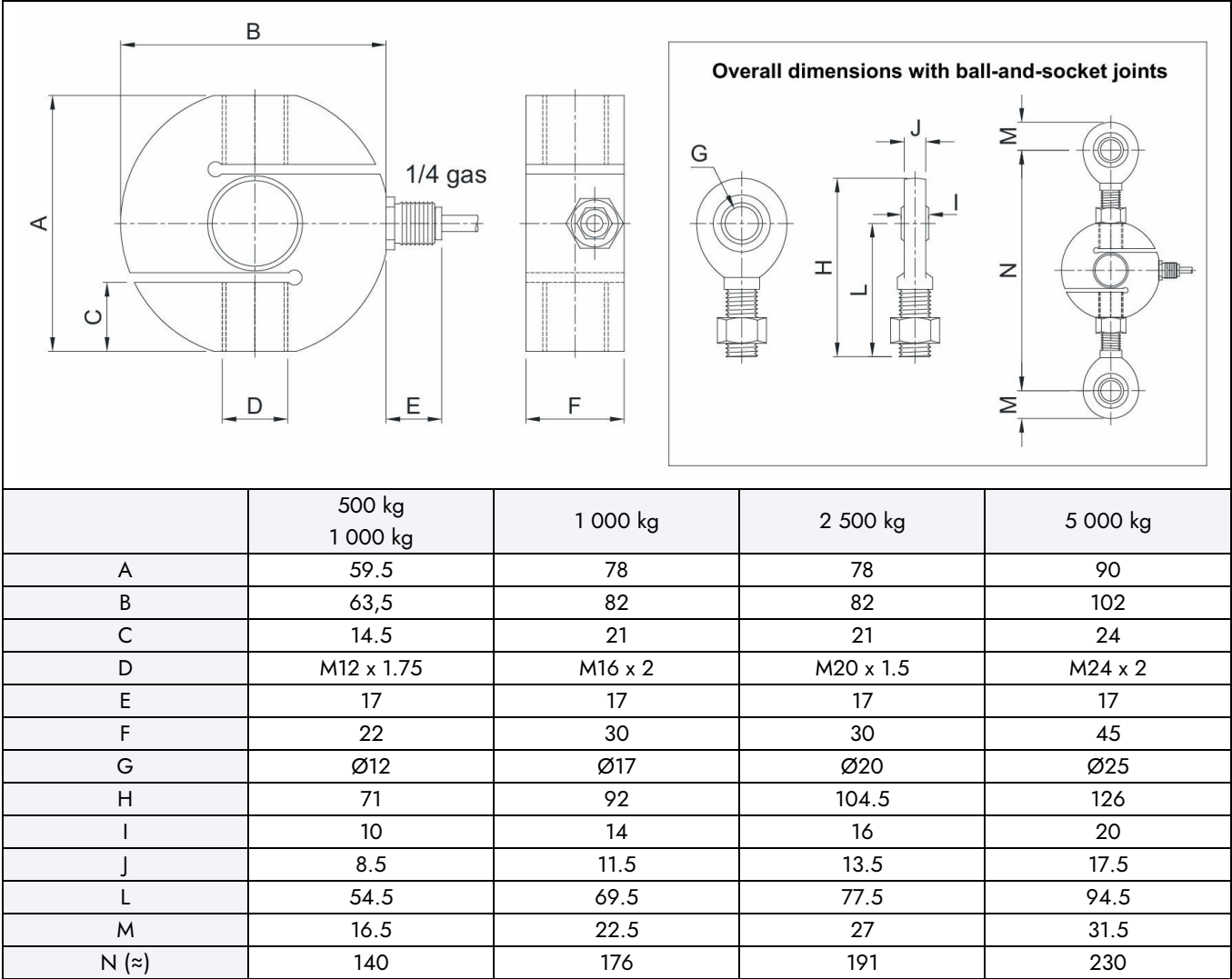
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	385 $\pm$ 30 Ω
Output resistance	350 $\pm$ 10 Ω
Insulation resistance	$\geq$ 2 000 M Ω at 100 V
Recommended excitation voltage	5 - 15 V
Cable diameter	6.0 mm
Cable length	10 000 mm

ELECTRICAL CONNECTION



DIMENSIONS (mm)



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		Complies with the Eurasian Customs Union regulations	
		Equivalent of the CE marking for the United Kingdom	
Certifications (on request)		Calibration report	
		LAT Accredia calibration certificate ISO 376 or ASTM E74 for <u>capacities from 1000 kg to 10000 kg</u>	
		ATEX (zone 2-22)	
		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	DIMENSIONS	LOAD CELL CAPACITY	CODE
	Ball-and-socket joint with nut:			
	stainless steel	M12x1.75	50-500 kg	EM-INOX
		M16x2	1000 kg	
		M20x1.5	2500 kg	
		M24x2	5000 kg	
	galvanized C40 steel	M12x1.75	50-500 kg	EM
		M16x2	1000 kg	
		M20x1.5	2500 kg	
		M24x2	5000 kg	

