

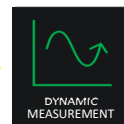
COMPRESSION LOAD CELL



COMPRESSION



- STAINLESS STEEL
- COMBINED ERROR $\leq \pm 0.042 \%$
- IP67 PROTECTION RATING



NOMINAL LOAD (FS)

kg	kN	NET WEIGHT (kg)	COMBINED ERROR	ACCURACY CLASS AC					Rated Output (mV/V)
				1	0.5				
500	5	2.08	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
1 000	10	2.08	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
2 500	25	2.08	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
5 000	50	2.08	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
10 000	100	2.08	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
20 000	200	3.42	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
30 000	300	3.42	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
50 000	500	9.43	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
75 000	750	9.43	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
100 000	1 000	9.43	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
150 000	1 500	18.2	$\leq \pm 0.03 \%$	•	–	•	•	•	2.0 $\pm 0.1\%$
200 000	2 000	18.2	$\leq \pm 0.03 \%$	•	–	•	•	•	2.0 $\pm 0.1\%$

- 0.5 class not available for 1500 and 2000 kN
- 0.5 class: Tests and calibrations performed with the transducer mounted on a bearing support with correctly tightened clamping screws
- 1 class: Percentage errors referred to reading, min. 1/10 of nominal load.



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2.0 mV/V ± 0.1 %FS
Combined error	$\leq \pm 0.042$ %FS
Non-linearity	$\leq \pm 0.03$ %
Hysteresis	$\leq \pm 0.03$ %
Creep	AC1: $\leq \pm 0.10$ %FS (at 30 min FS) AC0.5: $\leq \pm 0.05$ %FS (at 30 min FS)
Temperature coefficient on zero	$\leq \pm 0.030$ %FS
Temperature coefficient on span	0.003 %FS/°C
Compensated temperature range	-10...+40 °C
Operating temperature range	-20...+70 °C
Reference Temperature	23 °C

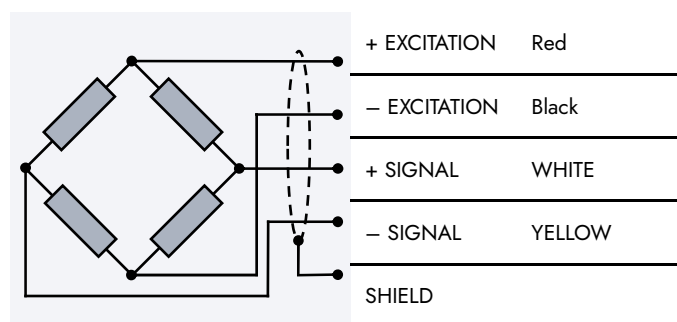
MECHANICAL PROPERTIES

Material	STAINLESS STEEL
Deflection at FN	~ 0.4 mm

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	700 $\pm$ 20 Ω
Output resistance	705 $\pm$ 2 Ω
Insulation resistance	≥ 5 G Ω at 100 V
Recommended excitation voltage	max. 15 V
Cable diameter	5.2 mm
Cable length	5 m

ELECTRICAL CONNECTION



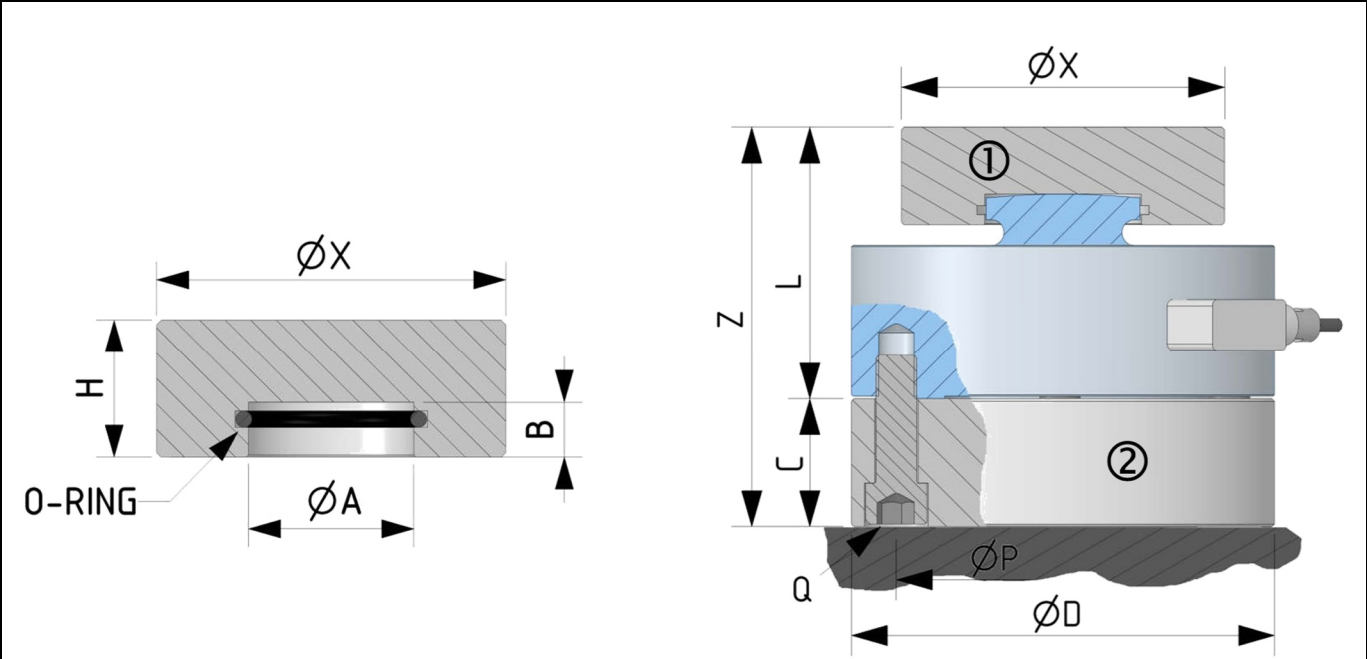
MECHANICAL LIMITS

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	75 %FS	For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure.



Load	A	B	C	ØD	ØE	ØF	ØG	H	I	M	n°M	R	ØS	T	U
5 – 100 kN	32	12	11	82	22	68	52.3	44	102	M8	3	50	60	0.3	6
200 – 300 kN	50	14	12	126	35	90	77.3	64	148	M8	3	160	100	0.5	15
500 – 1 000 kN	60	20	20	165	60	130	92.3	80	188	M16	4	300	115	1	17
1 500 – 2 000 kN	80	30	20	200	80	152	107	110	223	M16	4	300	128	1	23

ACCESSORIES dimensions (mm)



C8S	ACCESORIES	ØX	ØA	B	C	D	L	Z	H	P	Q
5 – 100 kN	① Loading head ② Mounting plate	57	23	9	30	82	59	89	24	68	#3 M8x30
200 – 300 kN	① Loading head ② Mounting plate	76	36	12	50	126	82	132	30	90	#3 M8x50
500 – 1 000 kN	① Loading head ② Mounting plate	126	61	12	50	165	106	156	38	130	#3 M16x50
1 500 – 2 000 kN	① Loading head ② Mounting plate	128	81	21	50	200	157	207	68	152	#3 M16x50

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		II 2G Ex ib IIC T5 Gb II 2D Ex ib IIIC T115°C Db
		LAT Accredia calibration certificate ISO 376 or ASTM E74
Certifications (on request)		Accredia traceable calibration report



OPTIONS (to be purchased separately)

CMIL6MF

- Direct output connector **MIL6M**



CMIL6FV5

- Female 6 poles straight **MIL6M** CONNECTOR complete PVC **CABLE**, shielded, length 5 m



CONNM12MF

- Direct output connector **M12**



CONNM12FV5

- Female 5 poles straight **M12x1** CONNECTOR complete PVC molded **CABLE**, shielded, length 3 m

