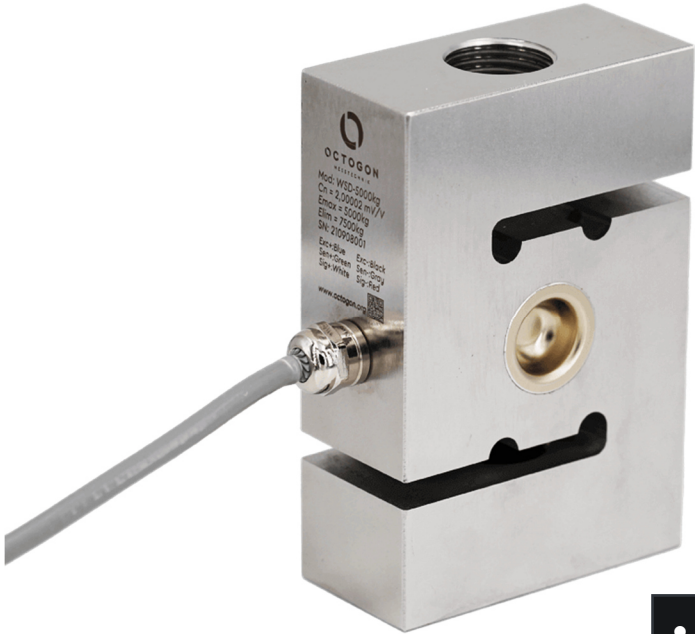


TENSION AND COMPRESSION LOAD CELL

TENSION & COMPRESSION



- LOW PROFILE
- COMBINED ERROR $\leq \pm 0.03 \%$
- IP68 PROTECTION RATING
- 17-4PH STAINLESS STEEL | 1.4542

STAINLESS
STEEL

17-4PH | 1.4542

NOMINAL LOAD (FS)

kg	N	Net weight (kg)	Combined error	ISO 17025	High Temperature -40...250°C	Rated Output (mV/V)
50	500	0.6	$\leq \pm 0.03 \%$	(optional)	(optional)	$1.5 \pm 10\%$
100	1 000	0.6	$\leq \pm 0.03 \%$	(optional)	(optional)	$1.5 \pm 10\%$
200	2 000	0.6	$\leq \pm 0.03 \%$	(optional)	(optional)	$1.5 \pm 10\%$
500	5 000	1.0	$\leq \pm 0.03 \%$	(optional)	(optional)	$1.5 \pm 10\%$
1 000	10 000	1.0	$\leq \pm 0.03 \%$	(optional)	(optional)	$1.5 \pm 10\%$
2 000	20 000	1.5	$\leq \pm 0.03 \%$	(optional)	(optional)	$1.5 \pm 10\%$
3 000	30 000	1.5	$\leq \pm 0.03 \%$	(optional)	(optional)	$1.5 \pm 10\%$
5 000	50 000	1.9	$\leq \pm 0.03 \%$	(optional)	(optional)	$1.5 \pm 10\%$



TECHNICAL DATA

PRECISION

Rated Output (C_n)	1.5 mV/V ± 10 % at FS
Zero Balance	$< \pm 0.01$ %
Combined error	$\leq \pm 0.03$ %FS
Non-linearity	$\leq \pm 0.018$ %FS
Hysteresis	$\leq \pm 0.018$ %FS
Repeatability	$\leq \pm 0.018$ %FS
Creep	$\leq \pm 0.024$ %FS (at 30 min FS)
Temperature coefficient of zero	0.0017 %FS/°C
Temperature coefficient of sensitivity	0.0014 %FS/°C
Compensated temperature range	-10...+40 °C
Operating temperature range	-30...+70 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	17-4PH STAINLESS STEEL 1.4542
Deflection at FN	~ 0.5 mm

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	$350 \pm 5 \Omega$
Output resistance	$350 \pm 5 \Omega$
Insulation resistance	$\geq 5,000 \text{ M}\Omega$ at 100 V
Recommended excitation voltage	$\leq 5 \text{ V}$
Cable diameter	5.4 mm
Cable length	3 000 mm

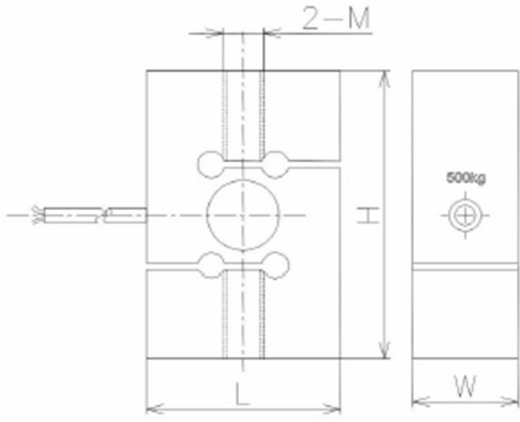
MECHANICAL LIMITS

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. ($\geq 2 \times 10^6$ Cycles at FS)

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

DIMENSIONS



Cap (kg)	L (mm)	H (mm)	W (mm)	M
50	50.8	63.5	25.4	M8
100,200	50.8	76.2	25.4	M12
500	57.2	87.3	31	M12
1 000	57.2	87.3	31	M12
2 000	69.8	100	36.5	M24 x 2
3 000	69.8	100	36.5	M24 x 2
5 000	76.2	114.3	36.5	M24 x 2

ELECTRICAL CONNECTION

