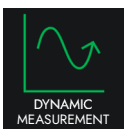


COMPACT RING LOAD CELL

COMPRESSION



- LOW PROFILE
- COMBINED ERROR $\leq \pm 0.5 \%$
- IP67 PROTECTION RATING
- 17-4PH STAINLESS STEEL | 1.4542



NOMINAL LOAD (FS)

kN	kg (optional)	Net weight (kg)	Combined error	ISO 17025	High Temperature -40...250°C	Rated Output (mV/V)
70	7 000	0.1	$\leq \pm 0.5 \%$	(optional)	(optional)	1.5 $\pm 50\%$
90	9 000	0.1	$\leq \pm 0.5 \%$	(optional)	(optional)	1.5 $\pm 50\%$
120	12 000	0.2	$\leq \pm 0.5 \%$	(optional)	(optional)	1.5 $\pm 50\%$
150	15 000	0.2	$\leq \pm 0.5 \%$	(optional)	(optional)	1.5 $\pm 50\%$
170	17 000	0.2	$\leq \pm 0.5 \%$	(optional)	(optional)	1.5 $\pm 50\%$
200	20 000	0.2	$\leq \pm 0.5 \%$	(optional)	(optional)	1.5 $\pm 50\%$
300	30 000	0.3	$\leq \pm 0.5 \%$	(optional)	(optional)	1.5 $\pm 50\%$
500	50 000	0.5	$\leq \pm 0.5 \%$	(optional)	(optional)	1.5 $\pm 50\%$
1 000	100 000	1.3	$\leq \pm 0.5 \%$	(optional)	(optional)	1.5 $\pm 50\%$



TECHNICAL DATA

PRECISION

Rated Output (C_n)	1.5 mV/V $\pm 50\%$ at FS
Zero Balance	$< \pm 0.05\%$
Combined error	$\leq \pm 0.5\%$ FS
Non-linearity	$\leq \pm 0.4\%$ FS
Hysteresis	$\leq \pm 0.3\%$ FS
Repeatability	$\leq \pm 0.1\%$ FS
Creep	$\leq \pm 0.1\%$ 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...+60 °C
Operating temperature range	-20...+80 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	17-4PH STAINLESS STEEL 1.4542
Deflection at FN	~ 0.6 mm

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	$780 \pm 20 \Omega$
Output resistance	$700 \pm 10 \Omega$
Insulation resistance	$\geq 5,000 M\Omega$ at 100 V
Recommended excitation voltage	5 - 15 V
Cable diameter	4.8 mm
Cable length	4 000 mm

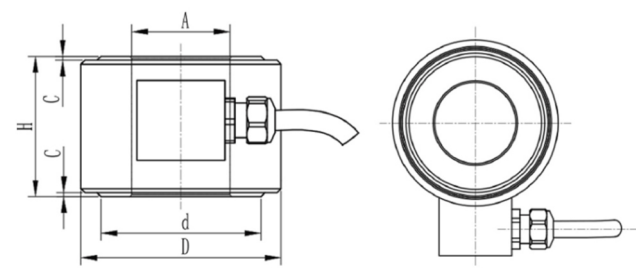
MECHANICAL LIMITS

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	$> 200\%$ 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.

COMPLIANCE AND CERTIFICATION

Protection Rating	IP67 (IEC 60529)
Compliance	CE, RoHS, REACH
Calibration	Factory-calibrated, ISO 17025 calibration available on request
HS-CODE	9031.80.80

DIMENSIONS



Cap (kN)	M	A	H	D	d	c
70	M10	10.5	25	30	19	1
90	M12	12.5	25	30	22	1
120	M14	14.5	30	40	24	1
150	M16	16.5	30	40	26	1
170	M18	18.5	35	45	30	1
200	M20	20.5	35	45	33	1
300	M22	22.5	35	50	38	1
300	M24	24.5	35	50	40	1
500	M30	31	45	65	40	1
1000	M36	37	70	80	63	1

ELECTRICAL CONNECTION

