

MINIATURE LOAD CELL

COMPRESSION



- MINIATURE LOAD CELL
- COMBINED ERROR $\leq \pm 0.54 \%$
- IP67 PROTECTION RATING
- 17-4PH STAINLESS STEEL



NOMINAL LOAD (FS)

N	kg (optional)	Net weight (kg)	Combined error	Rated Output (mV/V)
5	0.5	0.1	$\leq \pm 0.54 \%$	$1 \pm 0.5\%$
10	1	0.1	$\leq \pm 0.54 \%$	$1 \pm 0.5\%$
20	2	0.1	$\leq \pm 0.54 \%$	$1 \pm 0.5\%$



TECHNICAL DATA

PRECISION

Rated Output (C_n)	1 mV/V ± 0.5 % at FS
Zero Balance	$< \pm 0.05$ %
Combined error	$\leq \pm 0.54$ %FS
Non-linearity	$\leq \pm 0.5$ %FS
Hysteresis	$\leq \pm 0.2$ %FS
Repeatability	$\leq \pm 0.2$ %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	17-4 PH 1.4542
Deflection at FN	~ 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	> 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.

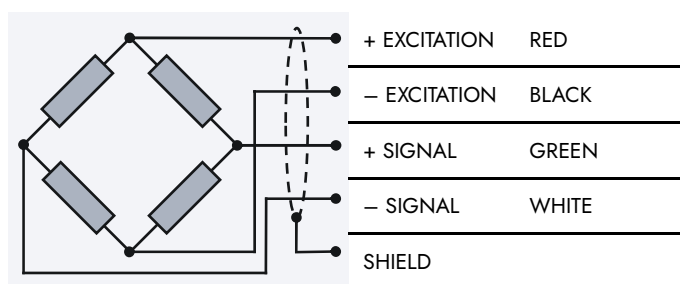
COMPLIANCE AND CERTIFICATION

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

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	950 $\pm$ 150 Ω
Output resistance	950 $\pm$ 150 Ω
Insulation resistance	$\geq 5\,000$ M Ω at 100 V
Recommended excitation voltage	5...15 V
Cable diameter	3 mm
Cable length	4000 mm

ELECTRICAL CONNECTION



DIMENSIONS

