

PLATFORM WEIGHING LOAD CELL

TENSION &
COMPRESSION



- COMBINED ERROR $\leq \pm 0.0235\%$
- HIGH ACCURACY
- IP68 PROTECTION RATING
- 17-4PH STAINLESS STEEL



NOMINAL LOAD (FS)

kg	N (optional)	Net weight (kg)	Rated Output
10	100	0.5	2.0±10% mV/V
20	200	0.5	2.0±10% mV/V
50	500	0.5	2.0±10% mV/V
100	1 000	0.5	2.0±10% mV/V



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2.0 mV/V ± 10 % at FS
Zero Balance	$< \pm 0.1$ %
Combined error	$\leq \pm 0.0235$ %FS
Non-linearity	$\leq \pm 0.0166$ %FS
Hysteresis	$\leq \pm 0.0166$ %FS
Repeatability	$\leq \pm 0.018$ %FS
Creep	$\leq \pm 0.0166$ %FS (at 30 min FS)
Temperature coefficient of zero	0.00125 %FS/ $^{\circ}$ C
Temperature coefficient of sensitivity	0.00175 %FS/ $^{\circ}$ C
Compensated temperature range	-10...+40 $^{\circ}$ C
Operating temperature range	-10...+50 $^{\circ}$ C
Reference Temperature	23 $^{\circ}$ C

MECHANICAL PROPERTIES

Material	17-4PH STAINLESS STEEL
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	> 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. The dynamic load must be applied to the transducer central thread.

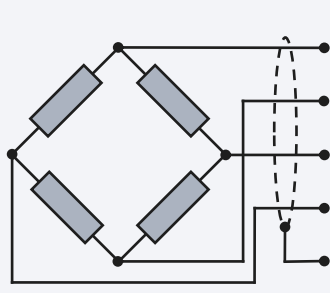
COMPLIANCE AND CERTIFICATION

Protection Rating	IP68 (IEC 60529)
Compliance	CE, RoHS, REACH
Calibration	Factory calibrated, ISO 17025 calibration available on request
HS-CODE	9031.80.80

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	390 ± 5 Ω
Output resistance	350 ± 5 Ω
Insulation resistance	$\geq 5\,000$ M Ω at 100 V
Recommended excitation voltage	5 V
Cable diameter	5.4 mm
Cable length	3 000 mm

ELECTRICAL CONNECTION

	+ EXCITATION	BLUE
	+ REF./SENSE	GREEN
	- EXCITATION	BLACK
	- REF./SENSE	GREY
	+ SIGNAL	WHITE
	- SIGNAL	RED
	SHIELD	



DIMENSIONS

