SINGLE-POINT LOAD CELL FOR PLATFORMS

TENSION & COMPRESSION

Capacity from 100 kg to 500 kg

Capacity from 10 kg to 50 kg

- STAINLESS STEEL 17-4PH | 1.4542
- COMBINED ERROR: ≤ ±0.02%, C3 | ≤ ±0.017%, C4
- IP68 PROTECTION RATING

STAINLESS STEEL 17-4PH | 1.4542

NOMINAL LOAD (FS)

kg	N	Net weight (kg)	PLATFORM (mm) A x B	ACCURACY CLASS C3	C4	Ex	NTEP	UK TRADE APPROVED
10	100	0.9	400 x 400	•	•	•	–	•
20	200	0.9	400 x 400	•	•	•	•	•
50	500	1.0	400 x 400	•	•	•	•	•
100	1 000	2.7	800 x 800	•	–	•	•	•
200	2 000	2.7	800 x 800	•	–	•	•	•
300	3 000	2.8	800 x 800	•	–	•	•	•
500	5 000	2.8	800 x 800	•	–	•	•	•

ON REQUEST

TECHNICAL DATA

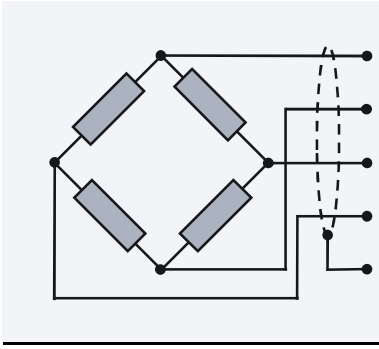
PRECISION

Rated Output (C_n)	2 mV/V ±10 % at FS
Zero Balance	≤ ±2 %
Combined error	≤ ±0.02 % (C3)
	≤ ±0.017 % (C4)
Non-linearity	≤ ±0.014 %FS (C3)
	≤ ±0.012 %FS (C4)
Hysteresis	≤ ±0.014 %FS (C3)
	≤ ±0.012 %FS (C4)
Repeatability	-
Creep	≤ ±0.02 %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	-35...+65 °C
Reference Temperature	23 °C

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	350 Ω ±3.5
Output resistance	350 Ω ±3.5
Insulation resistance	≥ 5 000 MΩ at 100 V
Recommended excitation voltage	≤ 18 V
Cable diameter	5 mm
Cable length	3 000 mm

ELECTRICAL CONNECTION



+ EXCITATION	RED
+ REF./SENSE	BLUE
– EXCITATION	BLACK
– REF./SENSE	YELLOW
+ SIGNAL	GREEN
– SIGNAL	WHITE
SHIELD	

MECHANICAL PROPERTIES

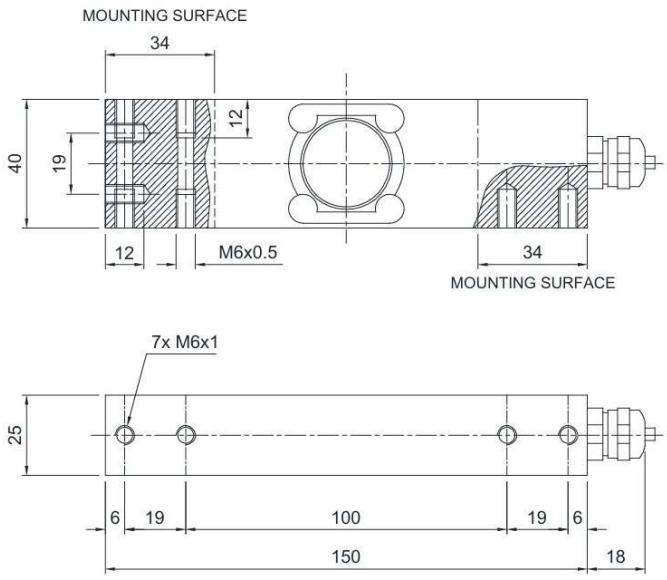
Material	STAINLESS STEEL 17-4PH | 1.4542
Deflection at FN	0.5 mm

MECHANICAL LIMITS

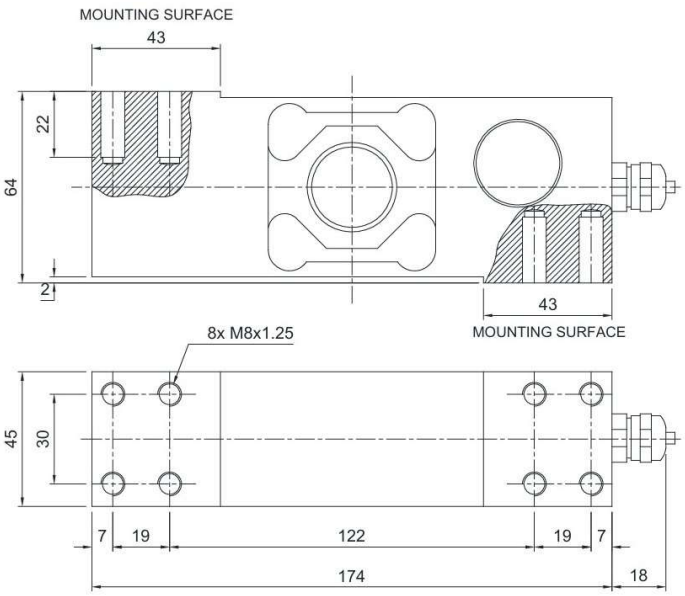
Service load	120 %FS	Load without any permanent deformation or change in calibration.
Safe overload	150 %FS	The highest static load that may be applied once or briefly without mechanical damage.
Breaking load	>300 %FS	Load at which permanent deformation or mechanical failure (fracture) occurs.
Max. transverse 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.

DIMENSIONS (mm)

10 – 50 kg

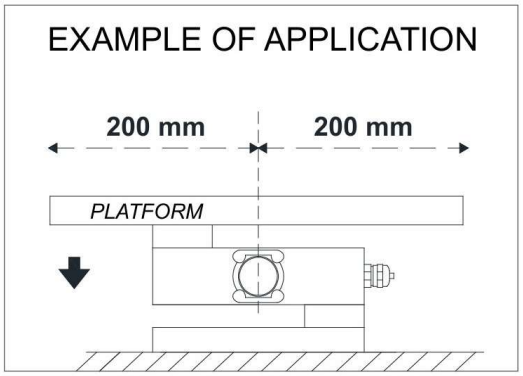


100 – 150 kg

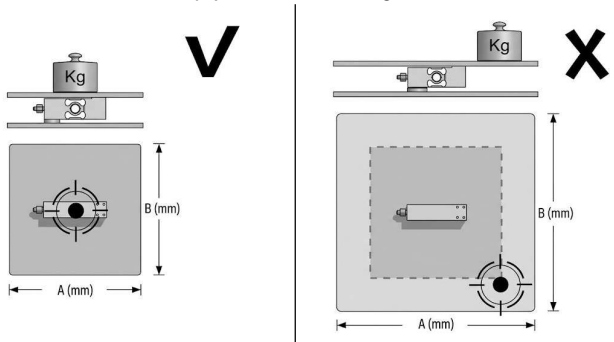


LOADING

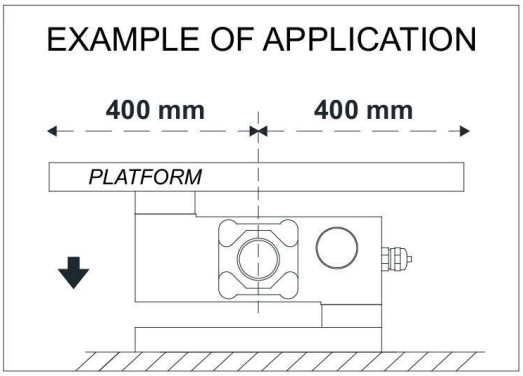
10 – 50 kg



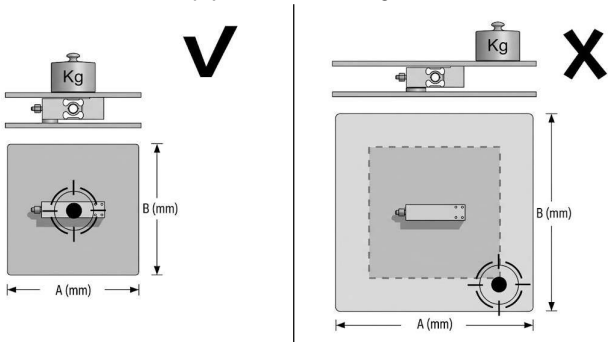
Comply with the loading area



100 – 150 kg



Comply with the loading area



A (mm)	B (mm)	A (mm)	B (mm)	A (mm)	B (mm)	A (mm)	B (mm)
200	200	> 200	> 200	400	400	> 400	> 400

COMPLIANCE AND CERTIFICATION

Protection Rating	IP68 according to IEC 60529	
Compliance	CE, RoHS, REACH	
Calibration	Factory calibrated, ISO 17025 calibration available on request	
HS-CODE	9031.80.80	
Certifications		OIML R60 C3
		Complies with the Eurasian Customs Union regulations
		Equivalent of the CE marking for the United Kingdom
		Complies with United Kingdom regulations for legal for trade use
Certifications (on request)		Calibration report
		Declaration of conformity + IP69K marking protection rating Water protection in case of high-pressure or steam jet cleaning (test: pressurized water is sprayed from a distance of max 150 mm) Water pressure: 100 bar; temperature: 80 °C; test duration: 250 seconds (reference standard: DIN 40050-9)
		ATEX II 1G 2D (zone 0-1-2–21-22) (CE - UKCA)
		IECEx (zone 0-1-2-20-21-22)
		Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres
		FM HazLoc - Complies with the United States and Canada regulations for use in potentially explosive atmospheres
		OIML R60 C4
		Complies with Chinese market regulations for use in potentially explosive atmospheres
		NTEP - Complies with United States regulations for legal for trade use

MOUNTING KITS AND ACCESSORIES

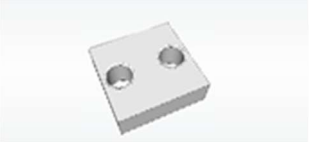
T8AZL

- Adjustable upper plate in galvanized steel (PPVZ).
- Lower plate and block in galvanized steel.
- Constraint against lateral forces and anti-tilt by galvanized steel self-centering joint foot.
- Compensation for any misalignments of the support plates of the structure.
- Adjustable height.
- Locking screw to avoid damage during transport and installation.
- Can be used for systems with at least 3 supports.

CAPACITY: 50 kg

BLOCPRC

- Stainless steel drawn block for capacities up to 50 kg.



BLOCAPL

- Stainless steel drawn block for capacities from 100 to 500 kg.