

SINGLE-POINT LOAD CELL FOR PLATFORMS

TENSION & COMPRESSION



- ALUMINUM ALLOY
- COMBINED ERROR:
 $\leq \pm 0.02\%$, C3 | $\leq \pm 0.017\%$, C4 | $\leq \pm 0.014\%$, C5
- IP65 PROTECTION RATING



NOMINAL LOAD (FS)

kg	N	Net weight (kg)	PLATFORM (mm) A x B	ACCURACY CLASS				
				C3	C4	C5		
60	30	0.6	400 x 400	•	•	–	•	•
100	50	0.6	400 x 400	•	•	–	•	•
150	100	0.6	400 x 400	•	•	–	•	•
200	150	0.6	400 x 400	•	•	–	•	•
300	500	0.6	400 x 400	•	•	•	•	•

ON REQUEST



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2 mV/V ± 10 % at FS
Zero Balance	$\leq \pm 2$ %
Combined error	$\leq \pm 0.02$ % (C3)
	$\leq \pm 0.017$ % (C4)
	$\leq \pm 0.014$ % (C5)
Non-linearity	$\leq \pm 0.014$ %FS (C3)
	$\leq \pm 0.012$ %FS (C4)
	$\leq \pm 0.010$ %FS (C5)
Hysteresis	$\leq \pm 0.014$ %FS (C3)
	$\leq \pm 0.012$ %FS (C4)
	$\leq \pm 0.010$ %FS (C5)
Repeatability	-
Creep	$\leq \pm 0.025$ %FS (at 30 min FS)
Temperature coefficient of zero	0.003 %FS/°C
Temperature coefficient of sensitivity	0.002 %FS/°C
Compensated temperature range	-10...+40 °C
Operating temperature range	-35...+65 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	Aluminum alloy
Deflection at FN	0.5 mm

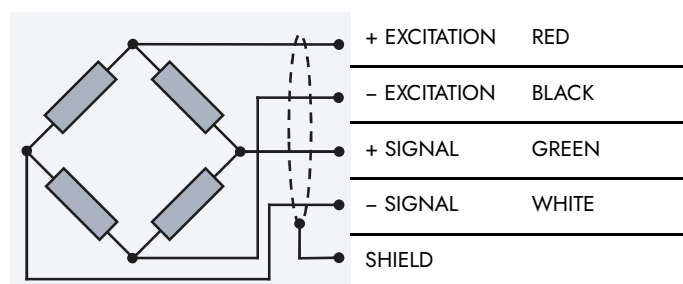
MECHANICAL LIMITS

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.

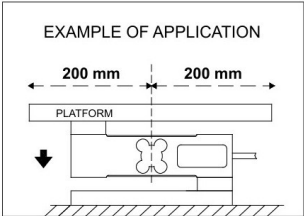
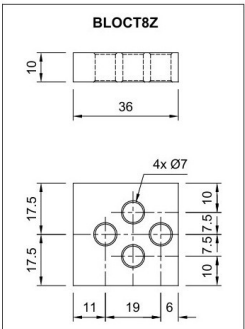
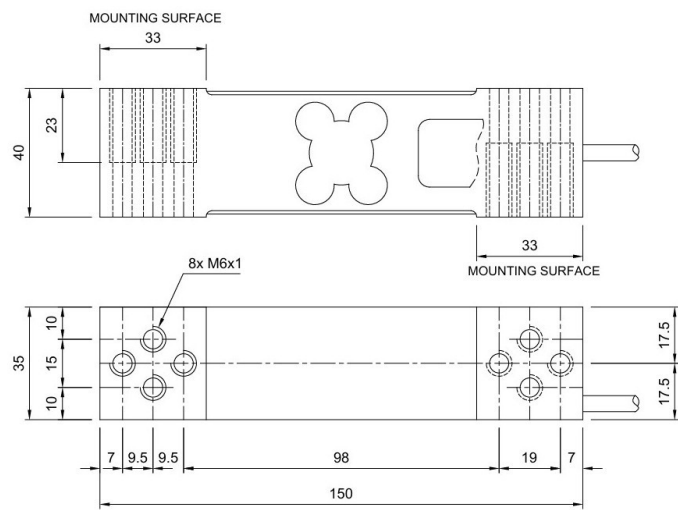
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	406 $\Omega \pm 6$
Output resistance	350 $\Omega \pm 3$
Insulation resistance	$\geq 5\,000$ M Ω at 100 V
Recommended excitation voltage	≤ 18 V
Cable diameter	5 mm
Cable length	5 000 mm

ELECTRICAL CONNECTION



DIMENSIONS (mm)



For the load cell fixing screws, provide the tightening torque indicated in the table

Screw	M6	
Screw class	6.8	8.8
Tightening torque	7.5 Nm	10 Nm

LOADING

Comply with the loading area			
A (mm) ≤ 400 B (mm) ≤ 400		A (mm) > 400 B (mm) > 400	



COMPLIANCE AND CERTIFICATION

Protection Rating	IP65 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	
		LAT Accredia calibration certificate ISO 376 or ASTM E74 for capacities from 1 000 kg to 10 000 kg
		ATEX II 1G 2D (zone 0-1-2-21-22) ( - )
		IECEx (zone 0-1-2-20-21-22)
		Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres
		OIML R60 C4/C5
		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

T8AM

- Pair of stainless steel tension brackets
- 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.



MAX. STATIC LOAD:
300 kg

IP68AM

- Stainless steel and rubber waterproof kit.



BLOCT8Z

- Galvanized steel drawn block.

