

SINGLE-POINT LOAD CELL FOR PLATFORMS

TENSION & COMPRESSION



- ALUMINUM ALLOY
- COMBINED ERROR:
≤ ±0.02%, C3 | ≤ ±0.017%, C4
- IP65 PROTECTION RATING

CEUKCA

OIML

Ex

EACEx

Ex NEPSI

EAC

ISO 17025

REACH

RoHS COMPLIANT

ALUMINUM ALLOY

IP65

NOMINAL LOAD (FS) [E_{max}]

kg	N	Net weight (kg)	PLATFORM (mm) A x B	ACCURACY CLASS		Rated Output (mV/V)
				C3	C4	
50	500	1.7	600 x 600	•	–	2 ±10%
100	1 000	1.7	600 x 600	•	–	2 ±10%
150	1 500	1.7	600 x 600	•	•	2 ±10%
200	2 000	1.7	600 x 600	•	•	2 ±10%
300	3 000	1.7	600 x 600	•	•	2 ±10%
500	5 000	1.7	600 x 600	•	•	2 ±10%

ON REQUEST



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2 mV/V ± 10 % at FS
Zero Balance	$\leq \pm 1$ %
Combined error	$\leq \pm 0.02$ % (C3) $\leq \pm 0.017$ % (C4)
Non-linearity	$\leq \pm 0.014$ %FS (C3) $\leq \pm 0.012$ %FS (C4)
Hysteresis	$\leq \pm 0.014$ %FS (C3) $\leq \pm 0.012$ %FS (C4)
Repeatability	-
Creep	$\leq \pm 0.015$ %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

MECHANICAL PROPERTIES

Material	Aluminum alloy
Deflection at FN	0.5 mm

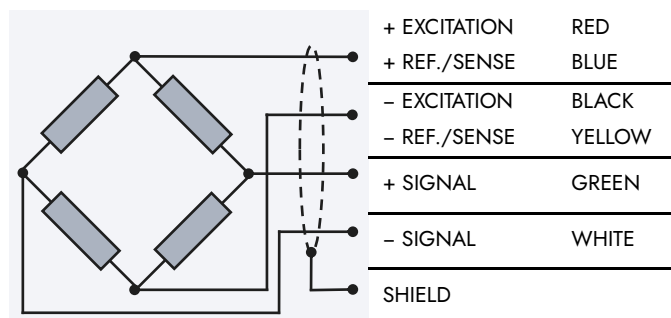
MECHANICAL LIMITS

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.

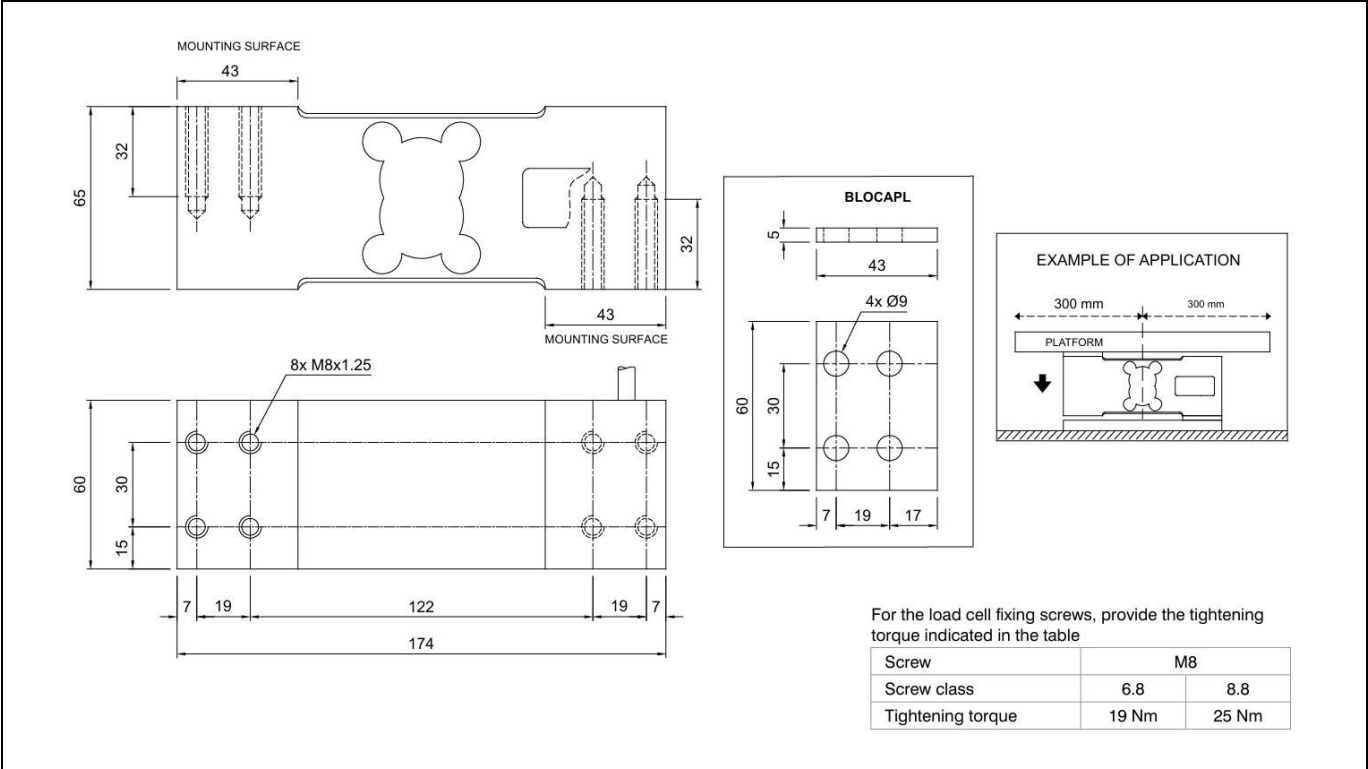
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	409 $\Omega \pm 6$
Output resistance	350 $\Omega \pm 3$
Insulation resistance	$\geq 5\,000$ M Ω at 100 V
Recommended excitation voltage	≤ 18 V
Minimum verification interval (V min)	$E_{max}/12\,000$ (50 – 100 – 150 – 200 – 300 – 500 kg) [C3]
	$E_{max}/15\,000$ (150 – 200 – 300 – 500 kg) [C4]
Cable diameter	6 mm
Cable length	3 m
Cores	6 x 0.20 mm ²

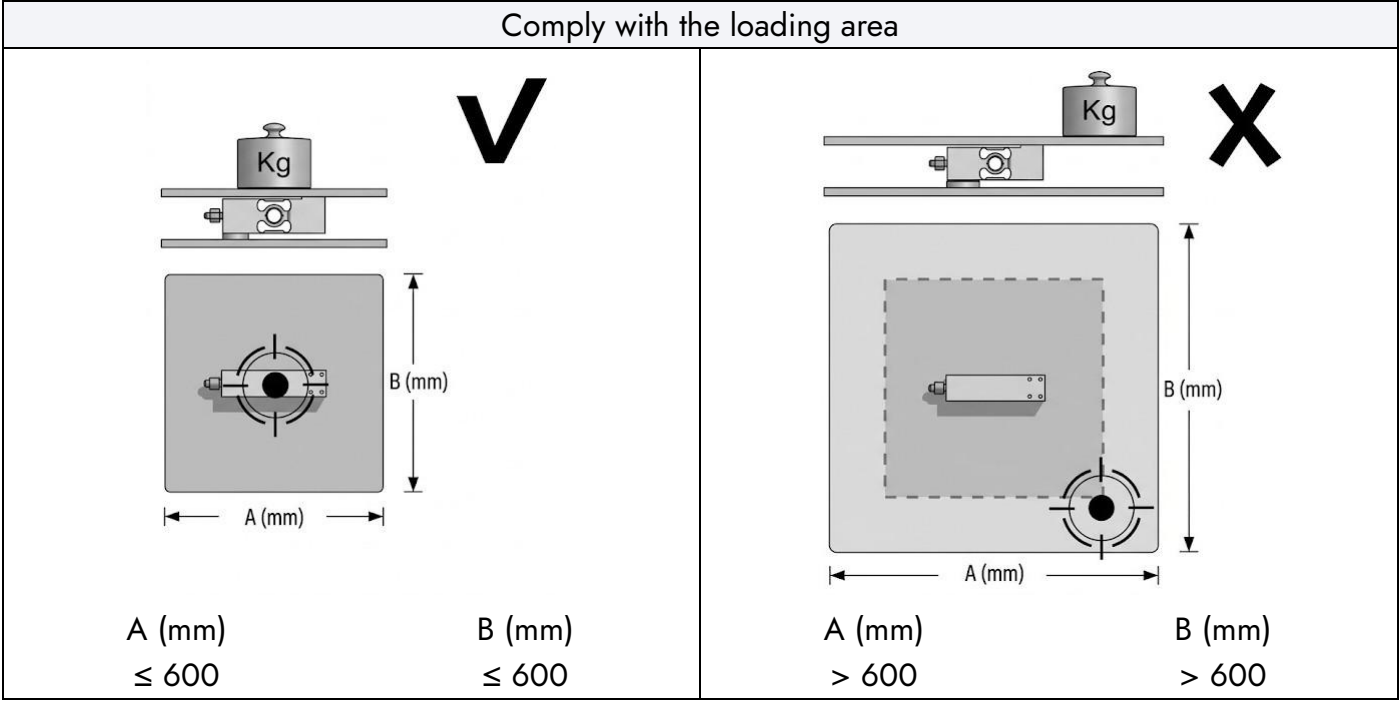
ELECTRICAL CONNECTION



DIMENSIONS (mm)



LOADING



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
Certifications (on request)		Calibration report
		ATEX (zone 2-22)
		Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres
		OIML R60 C4
		Complies with Chinese market regulations for use in potentially explosive atmospheres



MOUNTING KITS AND ACCESSORIES

IP68APL

- Stainless steel and rubber waterproof kit
(Ø 107x245 mm cable gland included)



BLOCAPL

- Galvanized steel drawn block.

