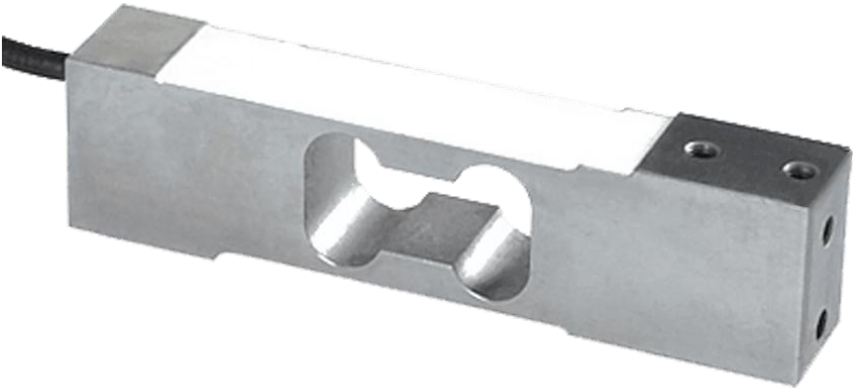


SINGLE-POINT LOAD CELL FOR PLATFORMS

TENSION & COMPRESSION



- STAINLESS STEEL AISI 420 | 1.4034
- COMBINED ERROR $\leq \pm 0.03\%$
- IP67 PROTECTION RATING

CE

EACEx

UKCA

EAC

STAINLESS STEEL
AISI 420

NOMINAL LOAD (FS)

kg	N	Net weight (kg)	PLATFORM (mm) A x B	Rated Output (mV/V)
10	100	1	400 x 400	2 ±10%
30	300	1	400 x 400	2 ±10%
50	500	1	400 x 400	2 ±10%
100	1 000	1	400 x 400	2 ±10%
200	2 000	1	400 x 400	2 ±10%



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2 mV/V ± 10 % at FS
Zero Balance	± 1 %
Combined error	$\leq \pm 0.03$ %
Non-linearity	$\leq \pm 0.02$ %FS
Hysteresis	$\leq \pm 0.02$ %FS
Repeatability	-
Creep	$\leq \pm 0.03$ %FS (at 30 min FS)
Temperature coefficient of zero	0.0025 %FS/°C
Temperature coefficient of sensitivity	0.0025 %FS/°C
Compensated temperature range	-10...+40 °C
Operating temperature range	-20...+60 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	STAINLESS STEEL AISI 420
Deflection at FN	0.5 mm

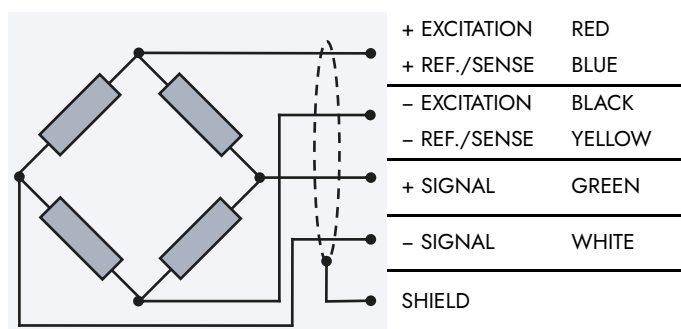
MECHANICAL LIMITS

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	385 Ω ± 30
Output resistance	350 Ω ± 3
Insulation resistance	$\geq 2\,000$ M Ω at 100 V
Recommended excitation voltage	≤ 18 V
Cable diameter	6 mm
Cable length	5 000 mm

ELECTRICAL CONNECTION



Technical drawing of the BLOCPRC component, showing three views: front, side, and top.

Front View: Shows the component with a central cutout. Dimensions include 18, 34, 12, 20, 15, 40, 31, and 45. The mounting surfaces are indicated.

Side View: Shows the profile of the component. Dimensions include 18, 34, 12, 20, 15, 40, 31, and 45.

Top View: Shows the component with dimensions 10, 31, 15, 15, 6, 19, 6, and 25. It also shows 6x M6x1 holes and 2x Ø8.5 holes.

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

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

COMPLIANCE AND CERTIFICATION

Protection Rating	IP67 according to IEC 60529	
Compliance	CE, RoHS, REACH	
Calibration	Factory calibrated, ISO 17025 calibration available on request	
HS-CODE	9031.80.80	
Certifications		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
		Complies with Chinese market regulations for use in potentially explosive atmospheres



MOUNTING KITS AND ACCESSORIES

T8AZL

- 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:
200 kg

BLOCPRC

- Stainless steel drawn block.

