

SINGLE-POINT LOAD CELL FOR PLATFORMS

TENSION &
COMPRESSION



- STAINLESS STEEL AISI 420 | 1.4034
- COMBINED ERROR $\leq \pm 0.02\%$
- IP67 PROTECTION RATING



STAINLESS
STEEL
AISI 420



NOMINAL LOAD (FS)

kg	N	Net weight (kg)	PLATFORM (mm) A x B	Rated Output (mV/V)
6	60	0.4	350 x 350	2 ±10%
15	150	0.4	350 x 350	2 ±10%
30	300	0.4	350 x 350	2 ±10%
50	500	0.4	350 x 350	2 ±10%



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2 mV/V ± 10 % at FS
Zero Balance	± 1 %
Combined error	$\leq \pm 0.02$ %
Non-linearity	$\leq \pm 0.014$ %FS
Hysteresis	$\leq \pm 0.014$ %FS
Repeatability	-
Creep	$\leq \pm 0.02$ %FS (at 30 min FS)
Temperature coefficient of zero	0.002 %FS/°C
Temperature coefficient of sensitivity	0.002 %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	0.3 mm

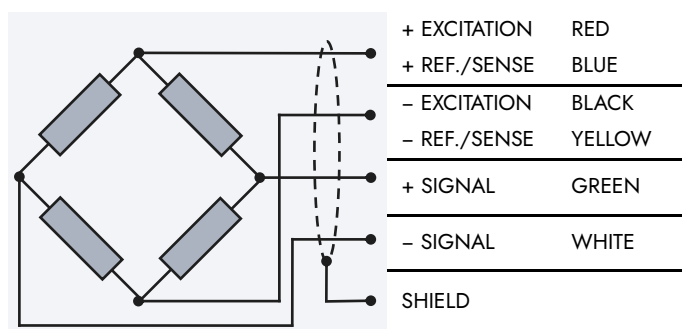
MECHANICAL LIMITS

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.

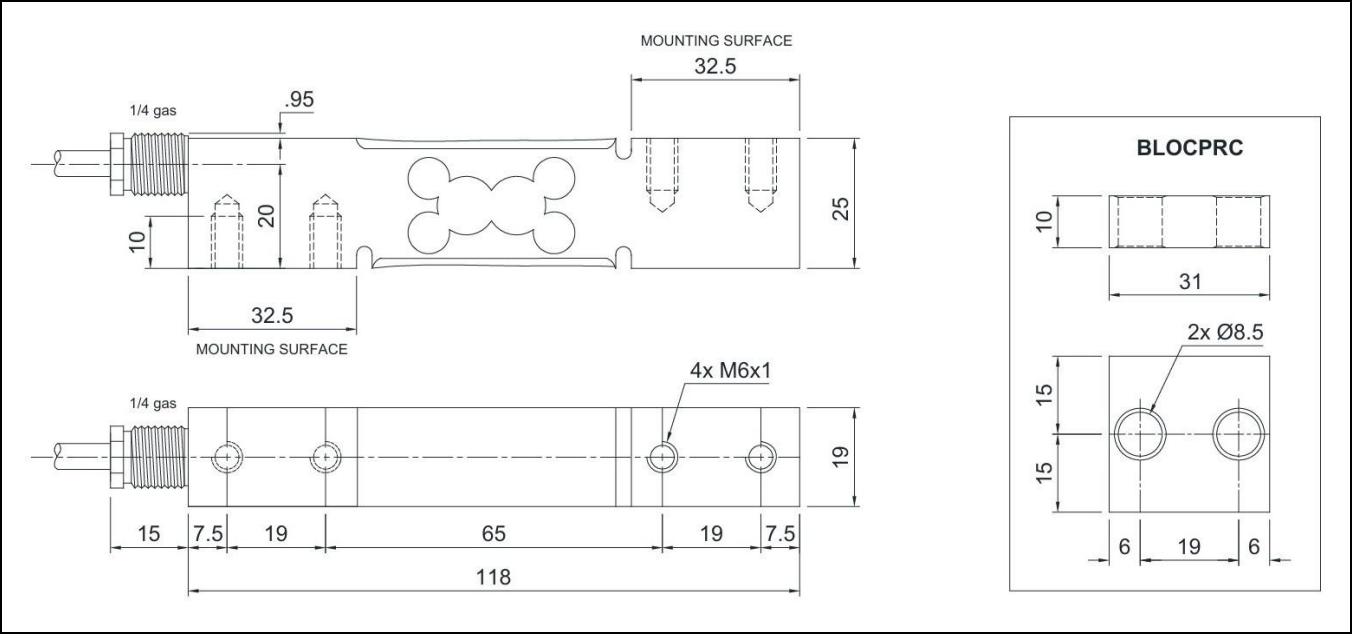
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	380 Ω ± 10
Output resistance	350 Ω ± 5
Insulation resistance	$\geq 5\,000$ M Ω at 100 V
Recommended excitation voltage	≤ 15 V
Cable diameter	3 mm
Cable length	5 000 mm

ELECTRICAL CONNECTION



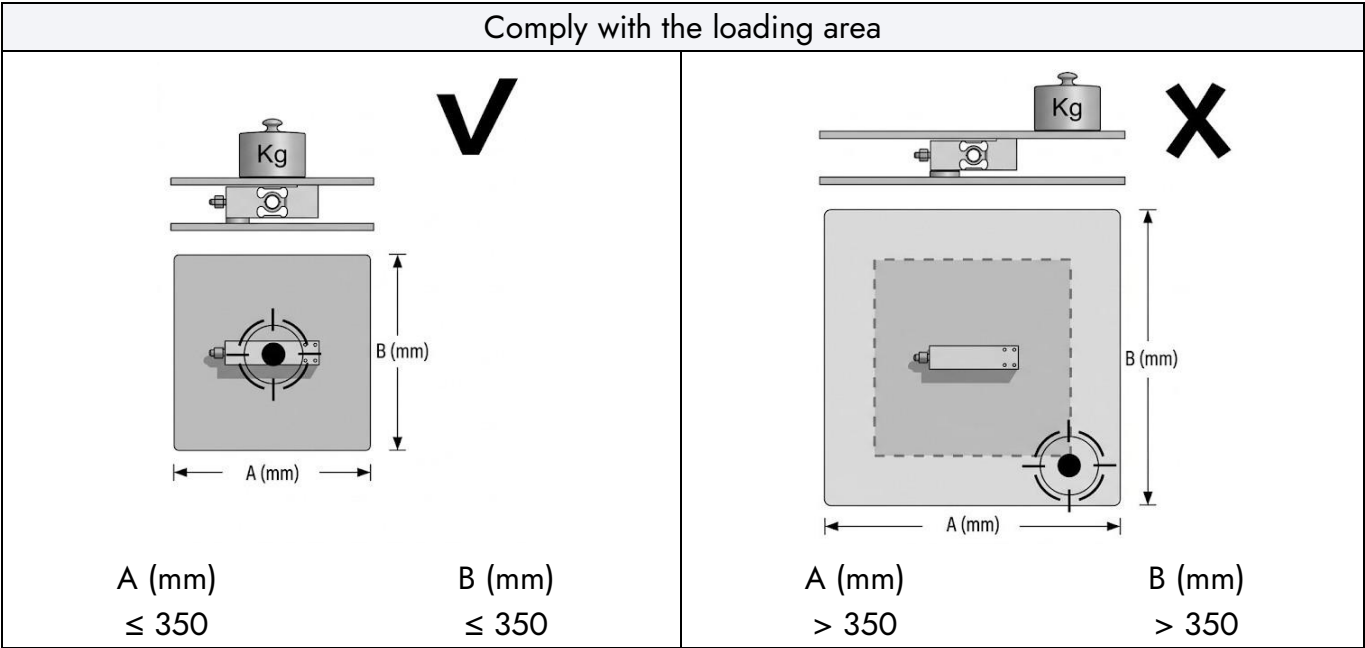
DIMENSIONS (mm)



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



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

BLOCPRC

- Stainless steel drawn block.

