

COMPRESSION LOAD CELL - LOW PROFILE



- AISI 420 STAINLESS STEEL
- COMBINED ERROR $\leq \pm 0.03 \%$
- IP68 PROTECTION RATING
- INTEGRATED STAINLESS STEEL LOWER PLATE



Manufactured according to OIML R60 standards

NOMINAL LOAD (FS)

kg	kN	Net weight (kg)	Combined error	EAC	UKCA	Ex	EACEx	Ex NEPSI	Rated Output (mV/V)
1 000	10	4.1	$\leq \pm 0.03 \%$	•	•	•	•	•	2 $\pm 0.4\%$
2 000	20	4.1	$\leq \pm 0.03 \%$	•	•	•	•	•	2 $\pm 0.4\%$
5 000	50	4.1	$\leq \pm 0.03 \%$	•	•	•	•	•	2 $\pm 0.4\%$

ON REQUEST



TECHNICAL DATA

PRECISION

Rated Output (Cn)	2 mV/V ± 0.4 % at FS
Zero Balance	± 1 %
Combined error	$\leq \pm 0.03$ %FS
Creep	0.02 % (at 30 min FS)
Temperature coefficient of zero	0.002 %/°C
Temperature coefficient of sensitivity	0.012 %/°C
Compensated temperature range	-10...+50 °C
Operating temperature range	-20...+70 °C

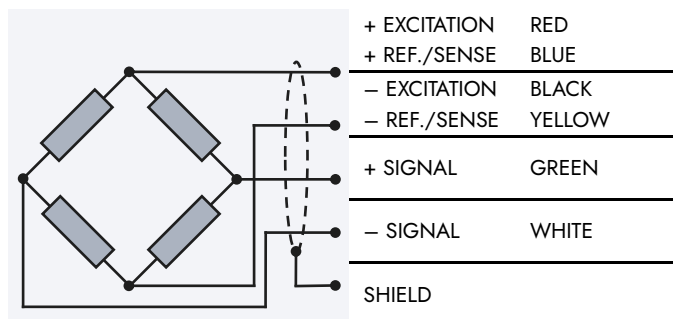
MECHANICAL PROPERTIES

Material	AISI 420 stainless steel
Deflection at FN	0.3 mm

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	385 Ω ± 10
Output resistance	350 Ω ± 3
Insulation resistance	> 5 000 M Ω
Max. supply voltage without damage	15 V
Cable diameter	6 mm
Cable cores	6 x 0.25 mm ²
Cable length	10 m

ELECTRICAL CONNECTION

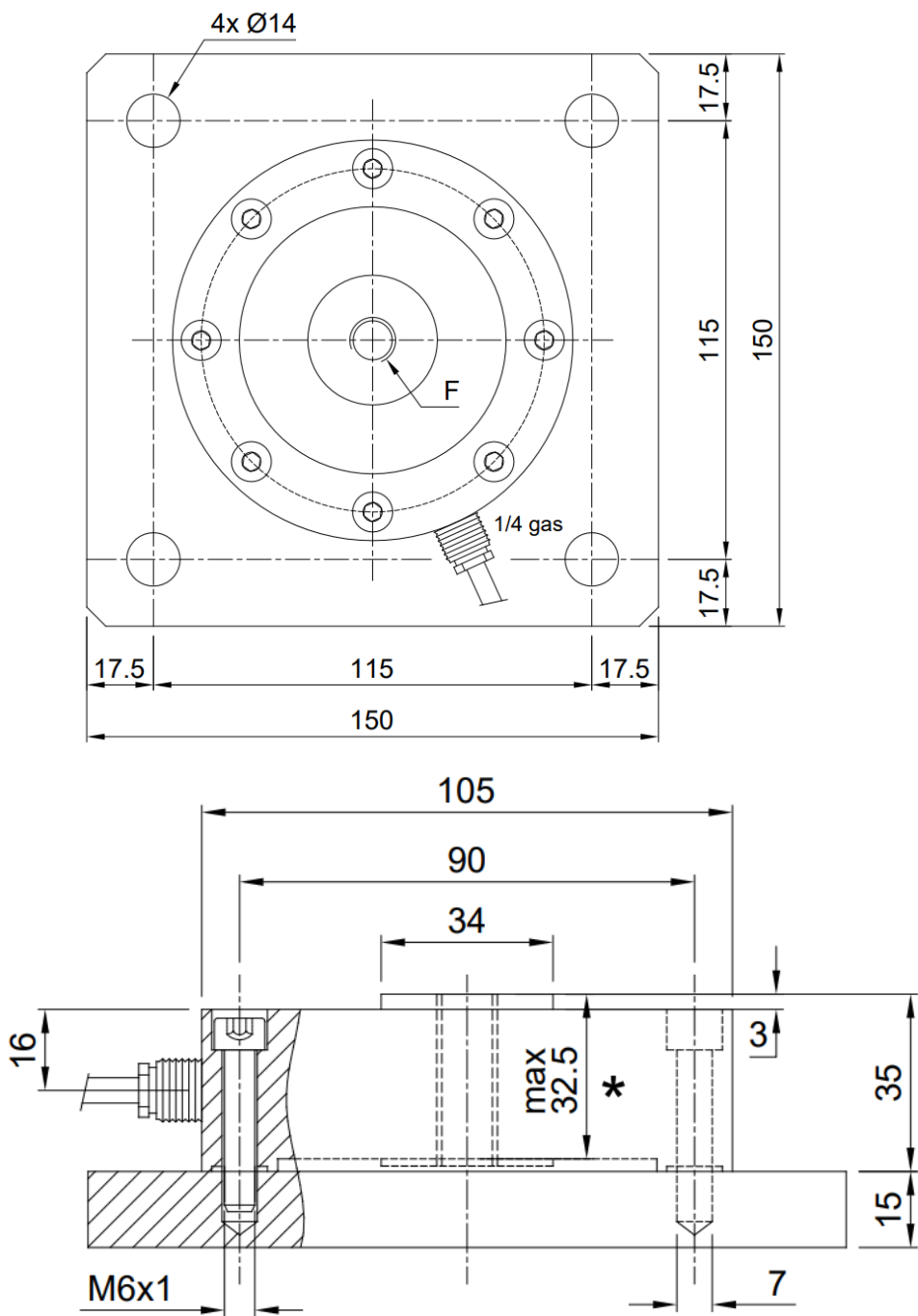


MECHANICAL LIMITS

Safe overload	150 %FS	The highest static load that may be applied once or briefly without mechanical damage.
Ultimate overload	250 %FS	Load at which permanent deformation or mechanical failure (fracture) occurs.



DIMENSIONS (mm)



* WARNING! Max dimension to insert the bolt to allow the cell to perform properly

	1 000 kg	2 000 kg	5 000 kg
F	M12 x 1.75	M12 x 1.75	M20 x 2.5



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		Complies with the Eurasian Customs Union regulations
		Equivalent of the CE marking for the United Kingdom
Certifications (on request)		Calibration report
		LAT Accredia calibration certificate ISO 376 or ASTM E74 for capacities from 1000 kg to 10000 kg
		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

LMLAQ

- Constraint against lateral forces and anti-tilt by AISI 304 stainless steel self-centering joint foot.
- Compensation for any misalignments of the support plates of the structure.
- Adjustable height.



2 000 kg
20 kN

LMLAP

- Adjustable upper plate in AISI 304 stainless steel (PPV).
- Constraint against lateral forces and anti-tilt by stainless steel self-centering joint foot.
- Compensation for any misalignments of the support plates of the structure.
- Adjustable height.
- * WARNING!
- Max dimension to insert the bolt to allow the cell to perform properly



2 000 kg
20 kN

LMLAN

- Constraint against lateral forces and anti-tilt by AISI 304 stainless steel self-centering joint foot.
- Compensation for any misalignments of the support plates of the structure.
- Adjustable height.



5 000 kg
50 kN

LMLAL

- Adjustable upper plate in AISI 304 stainless steel (PPV80).
- Constraint against lateral forces and anti-tilt by stainless steel self-centering joint foot.
- Compensation for any misalignments of the support plates of the structure.
- Adjustable height.



5 000 kg
50 kN



LMLAK – PSCLS

- Adjustable upper plate in hot galvanized steel.
- Constraint against lateral forces and anti-tilt by ball-and-socket joint.
- Compensation for any misalignments of the support plates of the structure.
- Adjustable height.
- * Warning!
- Max dimension to insert the bolt to allow the cell to perform properly



5 000 kg
50 kN

