

COMPRESSION COLUMN-LOAD CELL





COMPRESSION

- COMBINED ERROR $\leq \pm 0.014\%$
- IP69K PROTECTION RATING
- NICKEL PLATED STEEL | AISI 4340
- ANTI-RAT CABLE (LENGHT: 7 M; EQUIPPED WITH CONNECTOR ON BOTH ENDS)



NOMINAL LOAD (FS)

kg	kN	Net weight (kg)	ACCURACY CLASS C5				CODE
25 000	250	3.5	•	•	•	•	L-COD25000CC
50 000	500	3.7	•	•	•	•	L-COD50000CC



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2 mV/V ± 0.1 % at FS
Zero Balance	$< \pm 2$ %
Combined error	$\leq \pm 0.014$ %FS
Non-linearity	$\leq \pm 0.01$ %FS
Hysteresis	$\leq \pm 0.01$ %FS
Repeatability	-
Creep	$\leq \pm 0.02$ %FS (at 30 min FS)
Temperature coefficient of zero	0.0015 %FS/°C
Temperature coefficient of sensitivity	0.0015 %FS/°C
Compensated temperature range	-10...+40 °C
Operating temperature range	-30...+70 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	NICKEL PLATED STEEL AISI 4340
Deflection at FN	0.6 - 1 mm

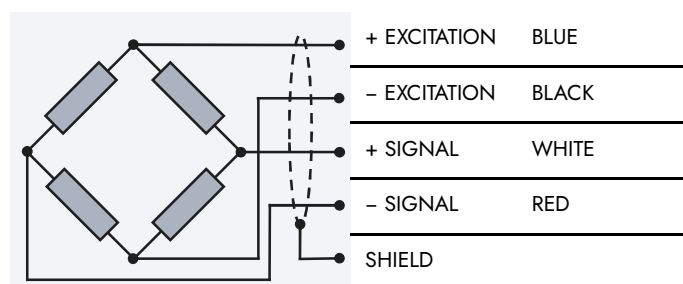
MECHANICAL LIMITS

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.

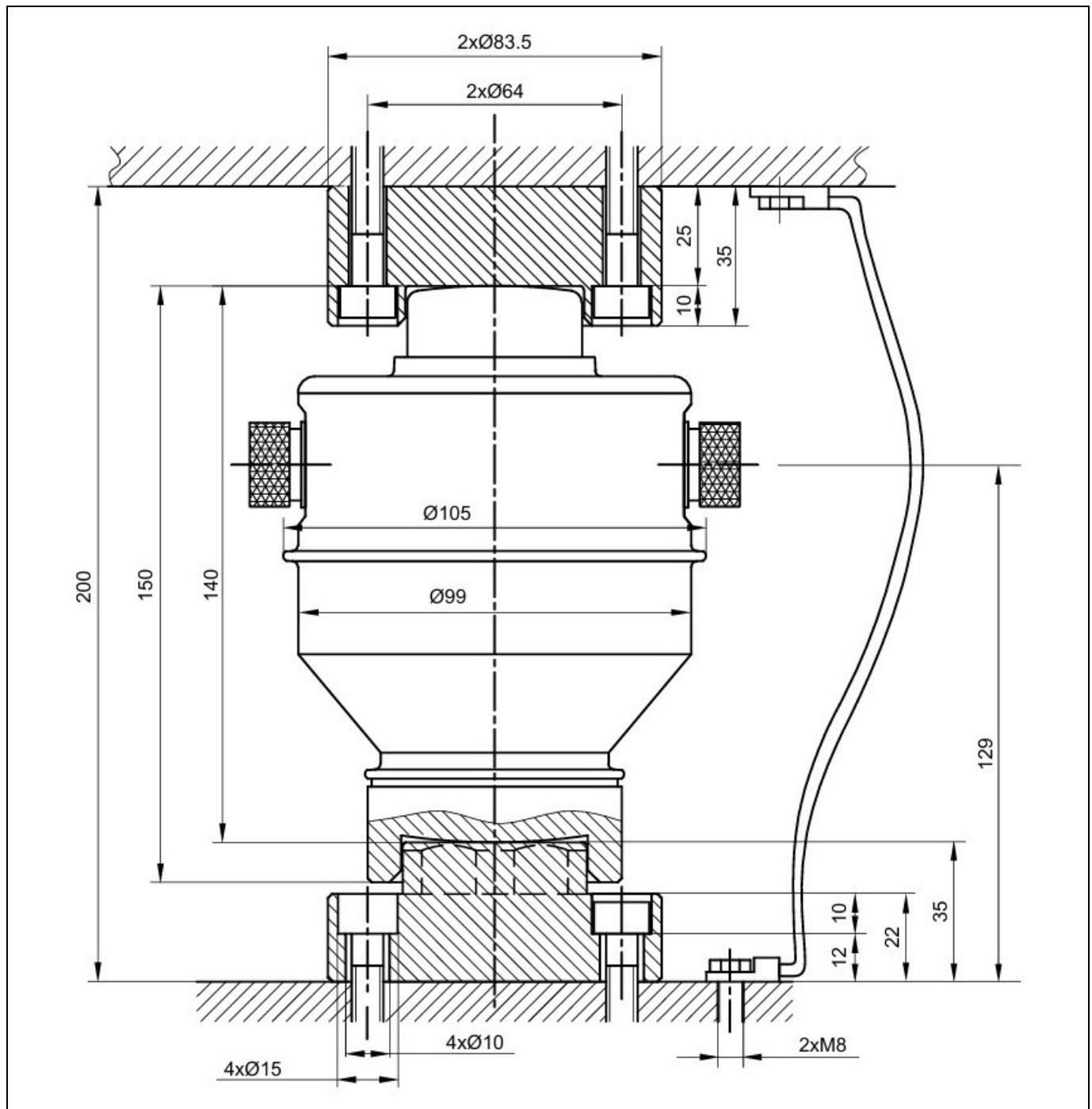
ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	800 $\pm$ 30 Ω
Output resistance	700 $\pm$ 10 Ω
Insulation resistance	$\geq 5,000$ M Ω at 100 V
Recommended excitation voltage	9 $\div$ 12 V
Cable diameter	8.8 mm
Cable length	7 000 mm

ELECTRICAL CONNECTION



DIMENSIONS (mm)



COMPLIANCE AND CERTIFICATION

Protection Rating	IP69K 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
	 Declaration of conformity + IP69K marking protection rating Water protection in case of high-pressure or steam jet cleaning (test: pressurized water is sprayed from a distance of max 150 mm) Water pressure: 100 bar; temperature: 80 °C; test duration: 250 seconds (reference standard: DIN 40050-9)

EXAMPLE OF APPLICATION

