

COMPRESSION COLUMN-LOAD CELL

COMPRESSION



- COMBINED ERROR $\leq \pm 0.02\%$
- IP68 PROTECTION RATING
- AISI 4340 NICKEL PLATED STEEL





NICKEL PLATED STEEL
AISI 4340



NOMINAL LOAD (FS)

kg	kN	Net weight (kg)	ACCURACY CLASS C3		 			
15 000	150	3.3	•	•	•	•	•	•
25 000	250	3.5	•	•	•	•	•	•
50 000	500	3.7	•	•	•	•	•	•
25 000 Anti-rat Cable	250	4.0	•	•	•	•	•	•

ON REQUEST



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2 mV/V ± 0.1 % at FS
Zero Balance	$< \pm 1$ %
Combined error	$\leq \pm 0.02$ %FS
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	-30...+70 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	AISI 420 stainless steel
Deflection at FN	0.6 - 1 mm

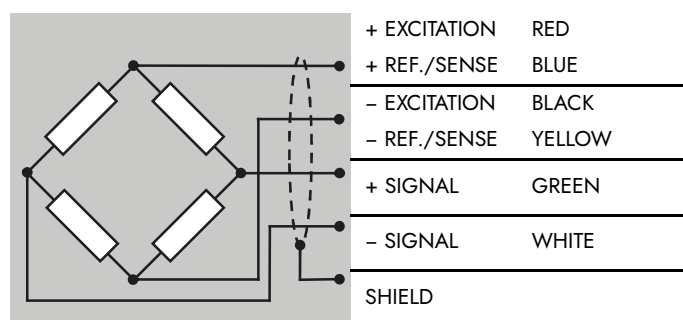
MECHANICAL LIMITS

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	> 250 %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	780 $\pm$ 20 Ω
Output resistance	700 $\pm$ 10 Ω
Insulation resistance	$\geq 5,000$ M Ω at 100 V
Recommended excitation voltage	≤ 15 V
Cable diameter	6 mm
Cable length	20 000 mm

ELECTRICAL CONNECTION



max 10

max 4°

Anti-rotation pin

200

150

149

Ø 11

Ø 85

64

Ø 44

Ø 48

Ø 76

Ø 85

KIT_COK

COK

Ø 165

3 x Ø 17

120°

120°

COK weight: 3 kg

KIT_COK weight: 2.7 kg

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	 OIML R60 C3
	 Complies with the Eurasian Customs Union regulations
	 Equivalent of the CE marking for the United Kingdom
	 Complies with United Kingdom regulations for legal for trade use
Certifications (on request)	 LAT Accredia calibration certificate ISO 376 or ASTM E74 <u>for capacities from 1000 kg to 10000 kg</u>
	 ATEX II 1G 2D (zone 0-1-2-21-22)
	 IECEx (zone 0-1-2-20-21-22)
	 Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres
	 Complies with the regulations of the Russian Federation for legal for trade use



MOUNTING KITS AND ACCESSORIES

VCOKDTL

- Galvanized steel upper and lower plate.
- Galvanized steel plate (for DOUBLE SHEAR BEAM load cell).
- Upper and lower bases (for COLUMN load cell).
- Two integrated galvanized steel stay rods with dual ball-and socket joints suitable to counter the lateral force.
- Anti-tilt constraint consisting of two threaded rods with self locking nut.



50 000 kg
500 kN

KITCOK

- AISI 5140 nickel plated steel accessory composed by anti-rotation system, protective rubber seal, 2 bases (upper and lower) and 3 self-centering cylindrical plates.

