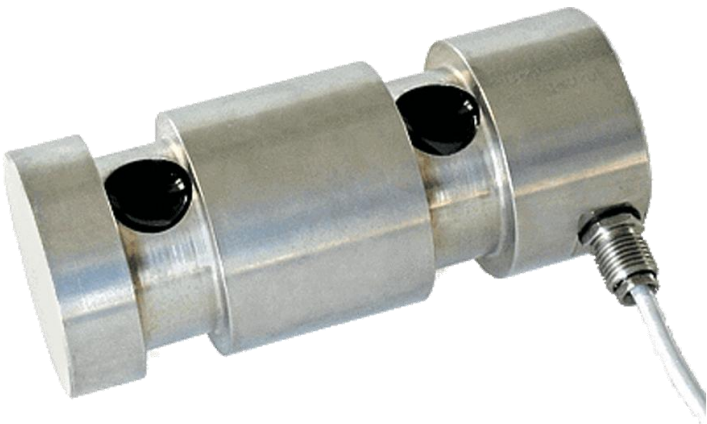


PIN LOAD CELL

COMPRESSION



- 17-4PH STAINLESS STEEL | 1.4542
- COMBINED ERROR $\leq \pm 0.1 \%$
- IP67 PROTECTION RATING



STAINLESS
STEEL
17-4PH | 1.4542





NOMINAL LOAD (FS)

kg	kN	Net weight (kg)	Combined error	EAC	IECEx	Ex	EACEx	Rated Output (mV/V)
5 000	50	2.9	$\leq \pm 0.1 \%$	•	•	•	•	1.0 $\pm 0.1 \%$
10 000	100	3.2	$\leq \pm 0.1 \%$	•	•	•	•	1.0 $\pm 0.1 \%$
20 000	200	3.4	$\leq \pm 0.1 \%$	•	•	•	•	1.0 $\pm 0.1 \%$

ON REQUEST



TECHNICAL DATA

PRECISION

Rated Output (C_n)	1.0 mV/V $\pm$ 0.1 % at FS
Zero Balance	$< \pm 1.0 \%$
Combined error	$\leq \pm 0.1 \%$ FS
Non-linearity	$\leq \pm 0.71 \%$ FS
Hysteresis	$\leq \pm 0.71 \%$ FS
Creep	$\leq \pm 0.03 \%$ FS (at 30 min FS)
Temperature coefficient on zero	0.005 %FS/ $^{\circ}$ C
Temperature coefficient on span	0.005 %FS/ $^{\circ}$ C
Compensated temperature range	-20...+70 $^{\circ}$ C
Operating temperature range	-30...+90 $^{\circ}$ C
Reference Temperature	23 $^{\circ}$ C

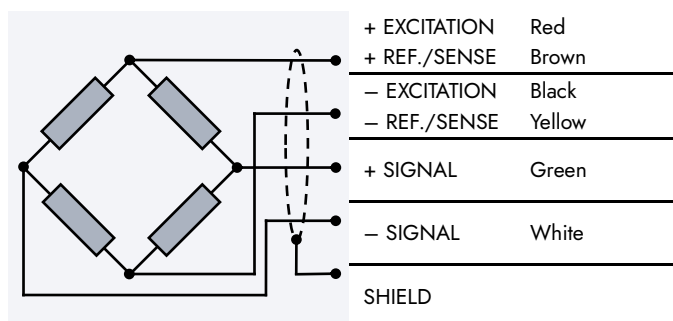
MECHANICAL PROPERTIES

Material	17-4PH STAINLESS STEEL 1.4542
Deflection at FN	~ 0.4 mm

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	$350 \pm 20 \Omega$
Output resistance	$350 \pm 5 \Omega$
Insulation resistance	$\geq 5\,000\, M\Omega$ at 100 V
Recommended excitation voltage	5 - 15 V
Cable diameter	5.0 mm
Cable length	10 m
Cores	6 x 0.14 mm ²

ELECTRICAL CONNECTION

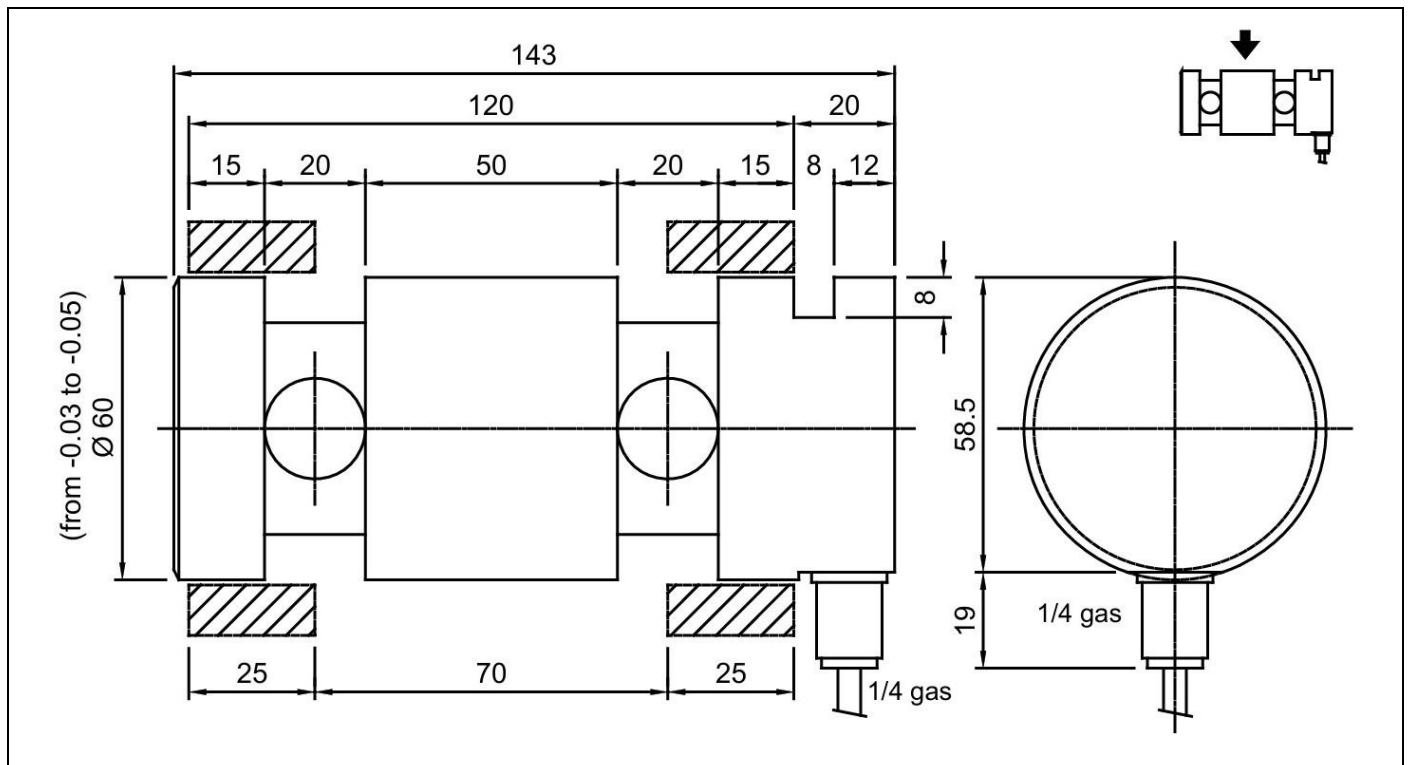


MECHANICAL LIMITS

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	$> 400 \%$ 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.



DIMENSIONS (mm)



COMPLIANCE AND CERTIFICATION

Protection Rating	IP67	
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)		Accredia traceable calibration report
		LAT Accredia calibration certificate ISO 376 or ASTM E74 for <u>capacities from 1000 kg to 10000 kg</u>
		ATEX (zone 2-22)
		ATEX/IECEx (zone 1-21)
		Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres
		Complies with Chinese market regulations for use in potentially explosive atmospheres

