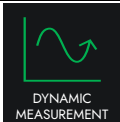


FORCE TRANSDUCER

COMPRESSION



- STAINLESS STEEL
- COMBINED ERROR $\leq \pm 0.03 \%$
($\leq 0.02\%$ AC0.5 on request)
- IP67 PROTECTION RATING



NOMINAL LOAD (FS)

kg	kN	NET WEIGHT (kg)	COMBINED ERROR	ACCURACY CLASS					Rated Output (mV/V)
				1	0.5				
100	1	0.28	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
250	2.5	0.28	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
500	5	0.28	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$
1 000	10	0.28	$\leq \pm 0.03 \%$	•	•	•	•	•	2.0 $\pm 0.1\%$



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2.0 mV/V ⁽¹⁾ ± 0.1 % at FS
Zero Balance	$< \pm 1.0$ %
Combined error	/
Non-linearity	$\leq \pm 0.05$ %FS
Hysteresis	$\leq \pm 0.05$ %FS
Creep	$\leq \pm 0.10$ %FS
Temperature coefficient on zero	$\leq \pm 0.028$ %FS
Temperature coefficient on span	0.024 %FS/°C
Compensated temperature range	-10...+40 °C
Operating temperature range	-20...+70 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	STAINLESS STEEL
Deflection at FN	~ 0.4 mm

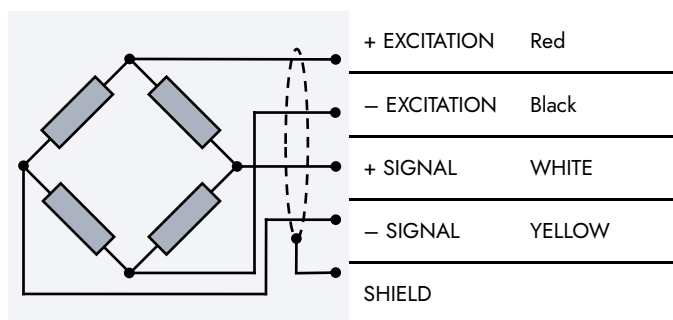
MECHANICAL LIMITS

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)	100 %FS	Maximum lateral or shear load that can be applied (e.g. due to misalignment or friction).
Max. permissible dynamic load	75 %FS ⁽²⁾	For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure.

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	800 $\pm$ 20 Ω
Output resistance	705 $\pm$ 2 Ω
Insulation resistance	≥ 5 G Ω at 100 V
Recommended excitation voltage	max. 18 V
Cable diameter	M12 5 Poles Male
Cable length	/

ELECTRICAL CONNECTION

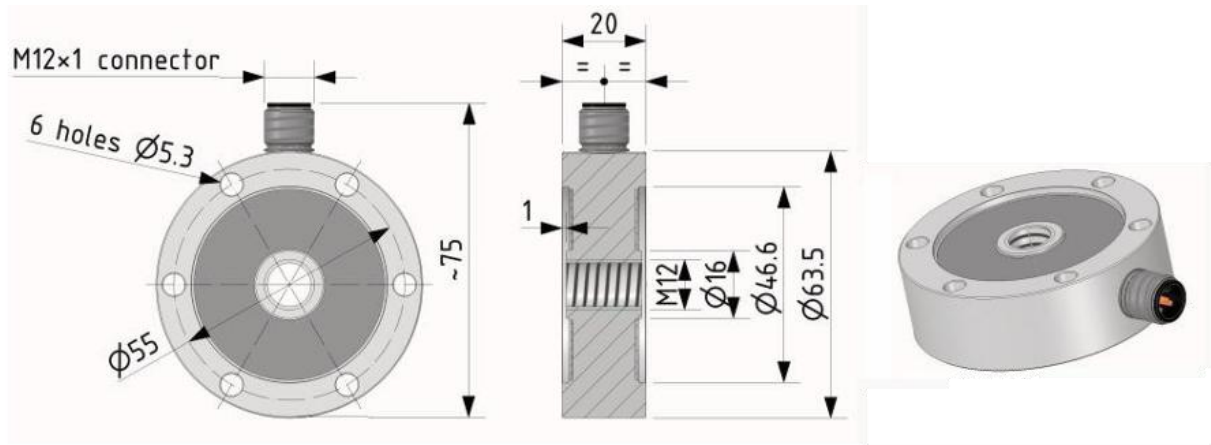


⁽¹⁾ Tests and calibrations performed in **COMPRESSION** with the transducer mounted on a bearing support with correctly tightened clamping screws.

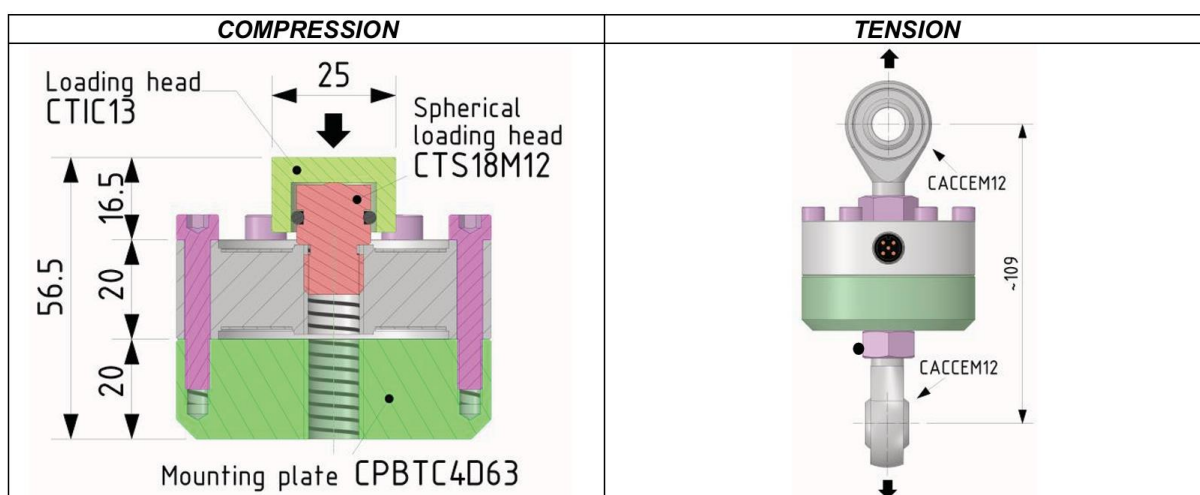
⁽²⁾ The dynamic load must be applied to the transducer central thread and not to the external fixing rim.



DIMENSIONS



APPLICATIONS (mm)

**Warning**

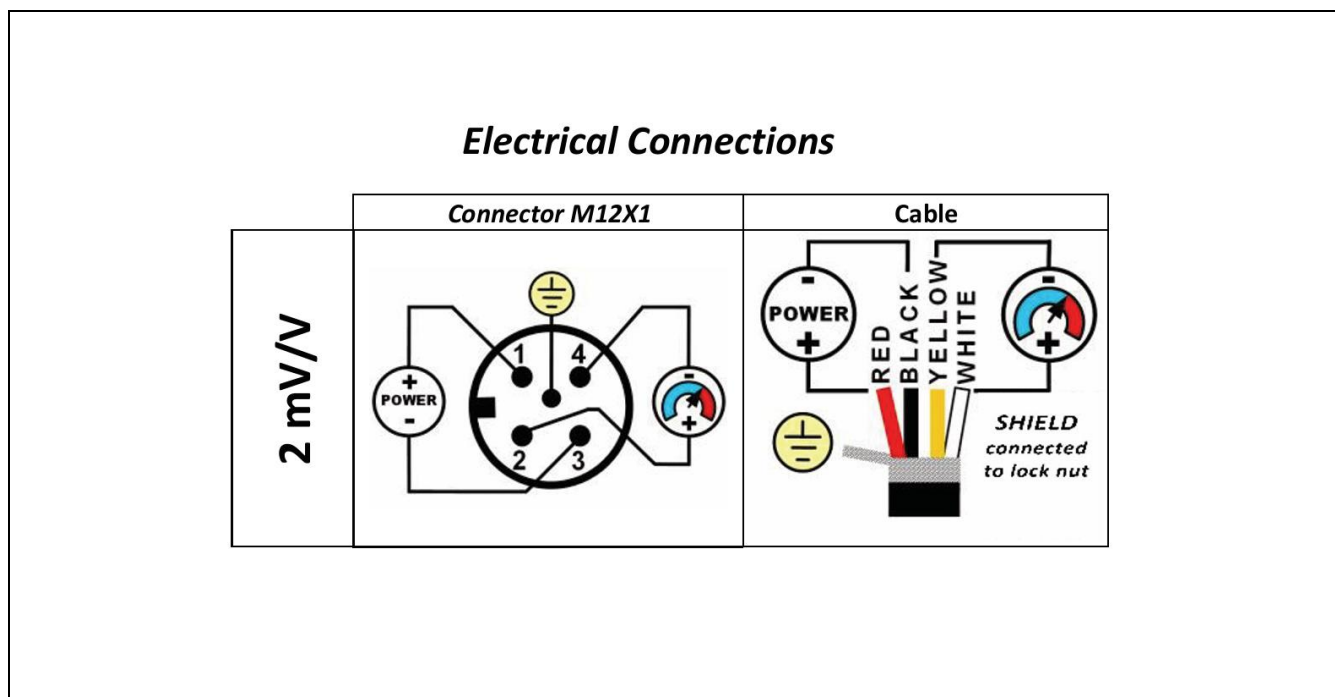
Check that the fixing screws and the accessories are correctly tightened.

Accessories material: Stainless Steel

$R_m \geq 90 \text{ kg/mm}^2$



ELECTRICAL CONNECTIONS



OPTIONS (to be purchased separately)

CONNM12FV5

- Female 5 poles straight **M12x1** CONNECTOR complete
PVC molded **CABLE**, shielded, length 3 m

