GEFRAN

CC (B - C) CYLINDRICAL FORCE TRANSDUCER FOR INDUSTRIAL APPLICATIONS



Main features

- Range of measurement: from 750 to 1.500 kN
- Accuracy class: 1%
- Internally generated calibration signal
- All stainless steel construction
- Corrosion resistant
- Grade of protection: IP65 (norme DIN 40050)

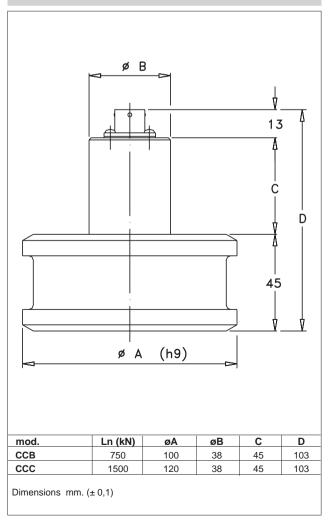
The CC force transducers have been designed for use in the plastics industry where it is required to measure the reaction force to the extrusion pressure that is present on the casing of the gearbox along the axis of the extruder screw. These models, fitted in contact with the thrust bearings, measure a force whose valve, after suitable correction, is equal to extrusion pressure multiplied by the screw area. The CC cylindrical force transducers are all stainless steel construction and configured in such a way that the body, airtight welded, acts also as the case, making a unit that is smaller than the CT series.

The connector in the shank is on the same axis as the transducer, which in some cases alows easier installation.

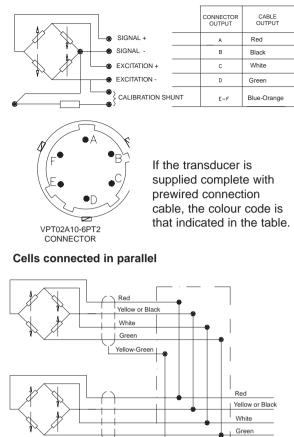
TECHNICAL DATA

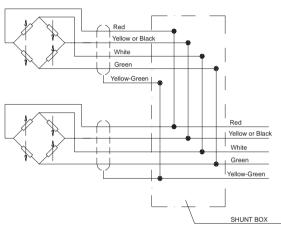
Accuracy	1%	
Nominal full scale load (Ln)	7501500 kN	
Nominal output at FSO	2mV/V	
Output tolerance at Ln	<± 1% FSO	
Combined errors: Non linearity Histeresis, Repeatibility	< ± 1% FSO	
Creep (after 30 min. at Ln)	< ± 0,06% FSO	
Zero load out of balance signal	< ± 1% FSO	
Calibration signal *	80%FSO ± 1%	
Thermal drift in compensated range Zero Calibration	< ± 0,02% FSO°C < ± 0,02% FSO°C < ± 0,02% FSO°C	
Nominal input resistance	700 Ohm	
Isolation resistance	> 10 GOhm	
Nominal supply voltage	10 V	
Maximum supply voltage	15 V	
Compensated temperature range	-20+50°C	
Maximum temperature range	-20+60°C	
Storage temperature range	-30+80°C	
Permitted static load	130% Ln	
Maximum applicable load	150% Ln	
Rupture load	> 300% Ln	
Carico statico laterale max.	40% Ln	
Maximum elastic deformation at Ln	< 0,1 mm	
Grade of protection (DIN40050)	IP65	
Electr. connections: Connector	VPT02A10-6PT2	
Elastic element material	Stainless steel	
Case material	Stainless steel	
* The exact value is indicated on the instrument nameplate.		

MECHANICAL DIMENSIONS



ELECTRICAL CONNECTIONS





In systems that use several cells, the parallel connection automatically sums the loads on each individual cell.

Using this method of measurement, the maximum load will be the sum of the loads on the individual cells and the sensitivity will be the average value of these cells. It is important that the user ensures that no cell is stessed beyond its maximum rating under any load condition.

CONVERSION TABLE

Kg	Ν	Lb
1	9.807	2.205
0.102	1	0.225
0.454	4.448	1

OPTIONAL ACCESSORIES

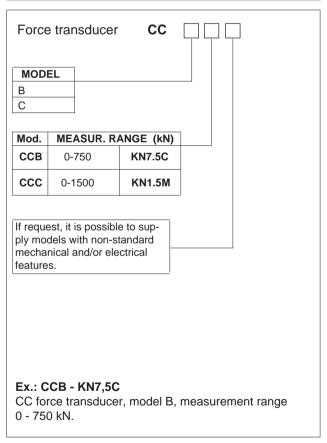
Connectors	
Female cable connector Grade of protection IP65	CON 300
6-pin connector with 8m (25ft) cable	C08W
6-pin connector with 15m (50ft) cable	C15W
6-pin connector with 25m (75ft) cable	C25W
6-pin connector with 30m (100ft) cable	W30W
Other lengths	consult factory

APPLICATION NOTES

For a correct use of the transducer, it is necessary to ensure that the load is evenly distributed over the application surfaces shown in the diagram.

It is essential to centre the transducer using the circular crow of diameter A and to apply the load installing the transducer between two grinded surfaces perpendicular to the direction of the applied load.

ORDER CODE



GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice.



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