

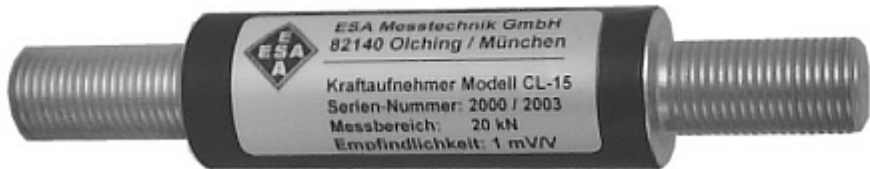
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Force Transducer Type CL 15

DESCRIPTION:

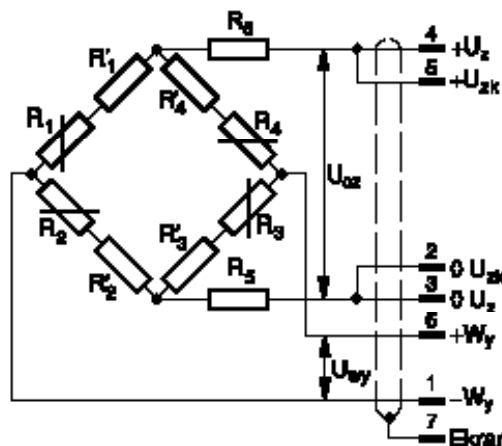
Force transducers/load cells Type CL15 are designed as tension links with 700 Ω strain gauge full bridge. Depending on measuring range, the spring elements are made of either high quality steel or aluminium. CL 15 force transducers are available with sensitivities of either 1 mV/V or 2 mV/V. The following table presents general technical specifications.



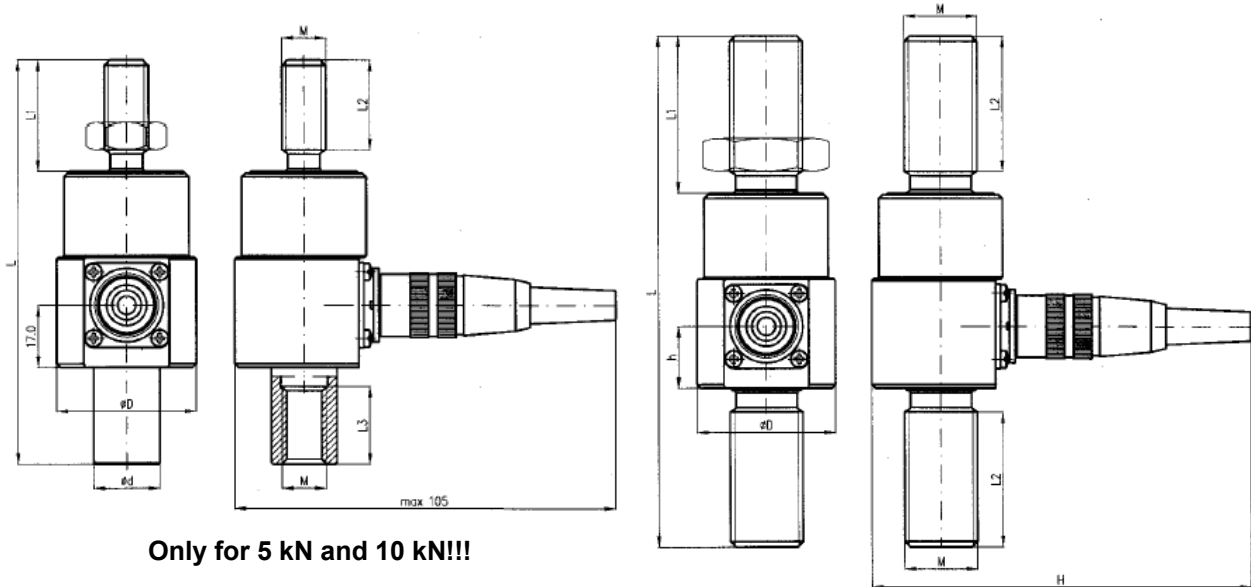
TECHNICAL SPECIFICATIONS:

Range	[kN]	5; 10; 20; 50; 100; 200
Sensitivity	[mV/V]	1 - R1, 2 - R2
Accuracy	%	0,05 or 0,1 (referred to full scale)
Nominal supply voltage	[VDC]	10
Input resistance	[Ω]	760 ± 10
Output resistance	[Ω]	700 ± 10
Operating temperature range	[°C]	-20 to 100
Compensated temperature range	[°C]	20 to 90
Zero drift	[%/30 min]	≤ 0,03
Hysteresis after unloading from nominal load	[%]	≤ 0,03
Temperature effect on sensitivity	[%/10K]	≤ 0,05
Temperature effect on zero	[%/10K]	≤ 0,05
Maximum strain	[mm]	0,2
Overload	[%]	50
Isolation resistance	[GΩ]	≥40
Connectors		LUMBERG (Z1) or O-Ring gland (O1)
Protection system		IP40 or IP67
Dimensions		See drawing and table below
Spring element material		Aluminium or Steel
Cable length		3 m (standard) or other optional

Circuit diagram for the Force Transducer CL 15:



DIMENSIONS:



Range kN	L	L1	L2	M	L3	h	D	H	Weight kg
	mm								
5	110	30	24	M12	22	-	38	-	0,12
10	120	35	29	M14	25	-	38	-	0,14
20	140	43	37	M24x2	-	17	38	≤105	0,51
50	195	55	47	M24x2	-	21	41	≤107	0,9
100	255	75	67	M39x3	-	21	56	≤125	2,5
200	345	100	92	M52x3	-	21	69	≤137	5,45

ORDER INFORMATION:

CL15-10 kN-0,1-R1-10-O1-1

Measuring Range _____

Accuracy Class _____

Configuration/Sensitivity (R1 or R2) _____

Excitation _____

Connectors (Z1 or O1) _____

Wire Length in m _____