

ESA Messtechnik GmbH

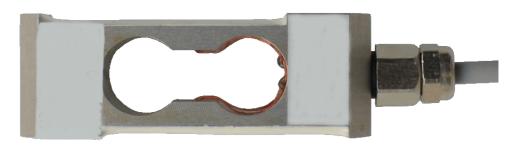
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Force Transducer Type CL 17pm

FEATURES:

The double bending beam / single point load cell CL 17pm with 350 Ω strain gauge full bridge are ideally suitable for low range scale designs, platform scales in particular as well as load force measurement applica-

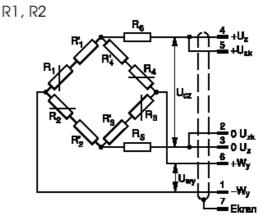


tions. As weighing cells, they are widely accepted in many retail and light industries as well as with postal scale designs. The use of single point load cell results in highly simplified scale and platform designs because mechanical flexure and levers are not needed any more. Type CL 17pm load cells are featuring very high zero stability, and they are available with 1 mV/V or 2 mV/V sensitivity.

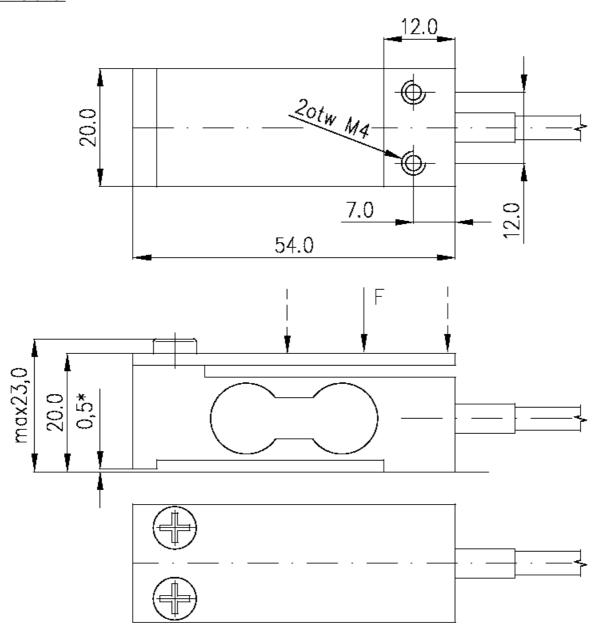
TECHNICAL SPECIFICATIONS:

Range	[kN]	0,01; 0,02; 0,05; 0,1; 0,2; 0,5; 1
Accuracy	%	0,05 or 0,1 (referred to full scale)
Sensitivity	[mV/V]	1 - R1, 2 - R2
Nominal supply voltage	[VDC]	10
Input resistance	[Ω]	410 +10
Output resistance	[Ω]	350 + 5
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]	0,5
Overload	[%]	50
Isolation resistance	[GΩ]	≥40
Connectors		O-Ring gland (O1)
Protection system		IP67
Dimensions		See drawing below
Weight	kg	0,42
Spring element material		Aluminium or steel
Cable length		3 m (standard) or other optional

Circuit diagram for the Force Transducer CL 17pm:



DIMENSIONS:



ORDER INFORMATION:

