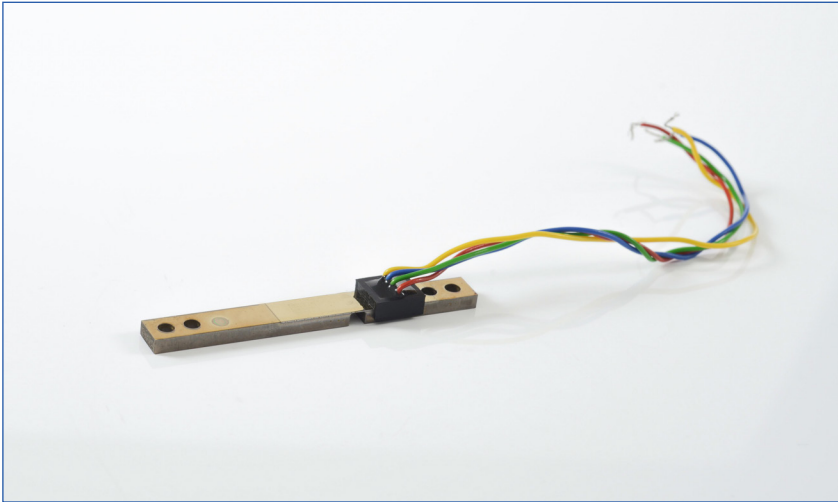


Electrical Force Transducers – Model 341



- Capacities: 0,5N to 125N
- Very small dimensions
- For compression and tension
- Modern technology
- Sputtered strain gauges
- High accuracy
- Sensitivity: 1mV/V
- Optional: TEDS module ¹⁾
(Installation inside plug)

The electrical force transducers of the model series 341 work by using a sputtered strain gauge technology and thereby they reach a high accuracy. They are characterised by their flat design with very small di-

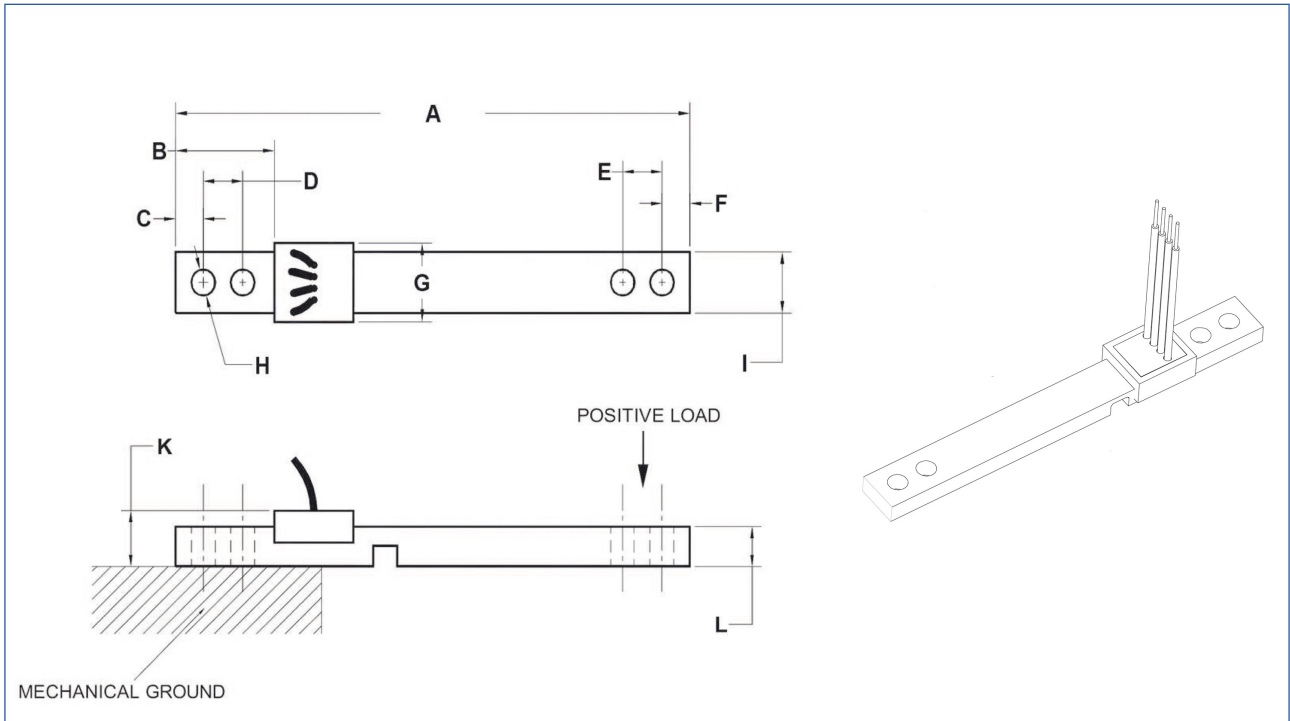
mensions, as well as by their high long term zero point stability and their low hysteresis. The highly sophisticated force transducers are excellently suitable for tensile and compressive measurements

in very small measuring ranges. Applications: Medical instrumentation, force, displacement and acceleration measurement, robotics, food dispensing equipment.

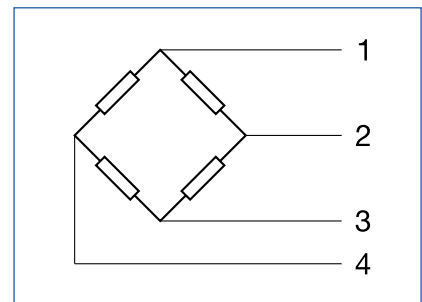
Model 341			
	Symbol	Unit	Standard
Hysteresis	H	%	0,03
Long term stability	SL	%/ year	0,1
Zero signal when removed	S ₀	mV/V	1
Rated characteristic value	C _{nom}	mV/V	1
Relative linearity error	d _{lin}	%	≤ 0,05
Nonrepeatability	b _{rg}	%	≤ 0,05
Combined error	F _{comb}	%	≤ 0,058
Operating temperature range	B _{T, G}	°C	-10...+70
Relative creep after 30 min	K _{0,5}	%	≤ 0,05
Temperature effect on characteristic value per 1K	TK _C	%	≤ 0,03
Temperature effect on zero signal per 1K	TK ₀	%	≤ 0,03
Input resistance	R _e	Ω	1000
Output resistance	R _a	Ω	1000
Insulation resistance	R _{is}	MΩ	> 1000
Max. excitation voltage	U	V	15
Recommended excitation voltage	U _E	V	10
Limit force	F _L	%	≤ 200
Breaking force	F _B	%	≥ 500

¹⁾ TEDS = Transducer Electronic Data Sheet acc. to IEEE 1451.4

Electrical Force Transducers – Model 341



Dimensions in mm		
Model 341		
Capacities	0,5N	20N
	1N	50N
	2N	125N
	5N	
	10N	
A	65,0	65,0
B	12,5	12,5
C	3,5	3,5
D	5,0	5,0
E	5,0	5,0
F	3,5	3,5
G	9,0	9,0
H	3,0 (4x)	3,0 (4x)
I	7,0	7,0
K	5,0	7,0
L	3,0	5,0



Connection Drawing		
1	red	Excitation +
2	yellow	Output +
3	blue	Excitation -
4	green	Output -

Deflection in mm					
Capacities	0,5N	1N	2N	5N	10N
	0,762	0,559	0,406	0,279	0,229
Capacities			20N	50N	125N
			0,254	0,152	0,432