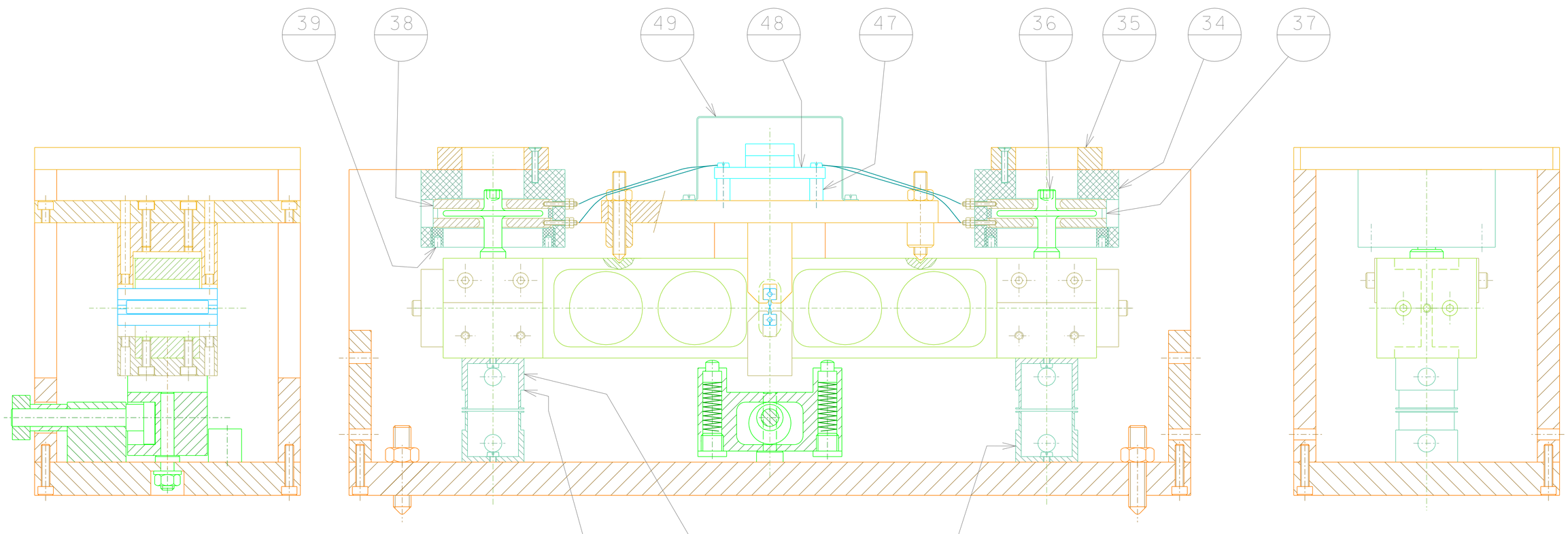
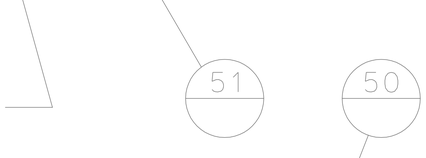
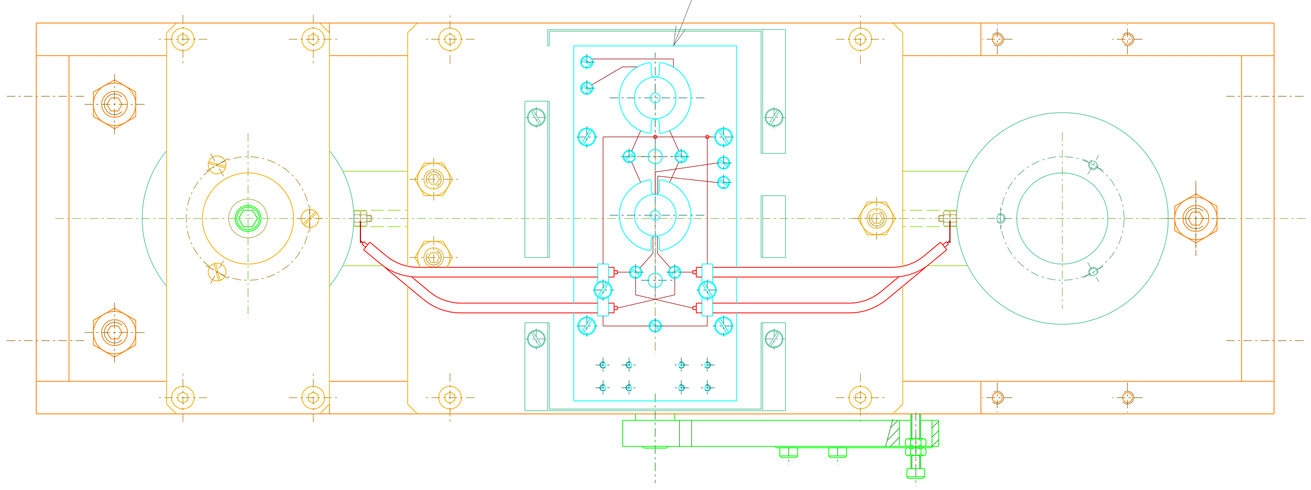
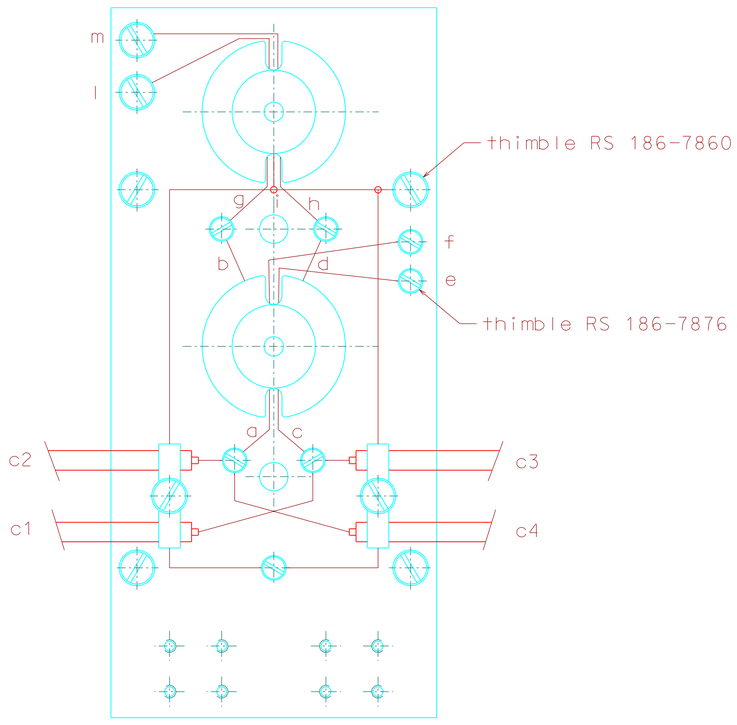


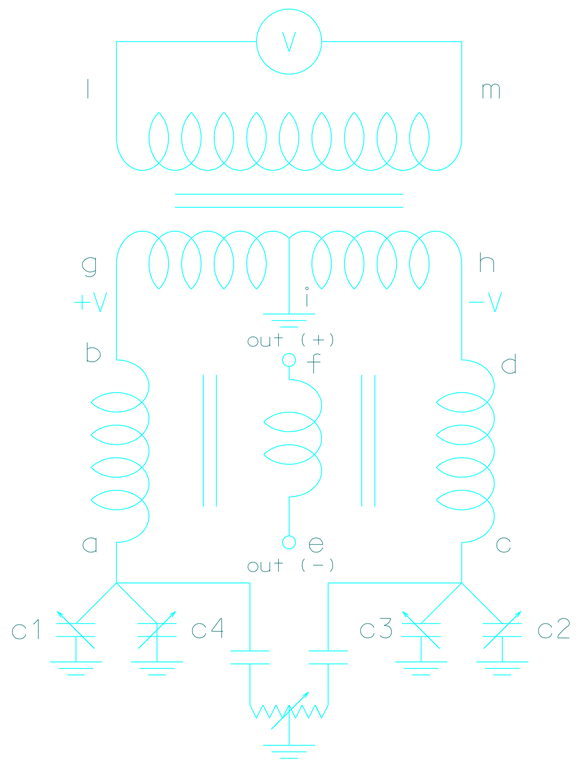
Coils on balance connected
in series with same helicity



Coils on support connected
in series with opposite helicity







Trasformer 1:
central coil (l-m)
2.5 turns of 0.5 mm diameter
kapton insulated wire
twin coils (g-i and i-h)
100 turns of 0.125 mm diameter
kapton insuleted wire.

Trasformer 2:
three identical coils (a-b, c-d, e-f)
16 turns of 0.125 mm diameter kapton
insulated wire, it is very important to have
the same amount of turns in all twin coils.
Use any of the three size (ferrite core
EPCOS B65661 with coil 50.1 or B65651
with coil 50.2, or B65541 with coil 50.3)
according to the impedence requirements.

detail	type	n°piec.
38	M2 nut	8
5-50	M3x20 fillister head	4
5-49	M3x8 fillister head	4
4-34	M3x16 fillister head	6

Screw's table

ref.	note	date	signature

modifications

ref.	draw.	added legend
39	015	pusher ring
38	015	external electrode
37	015	spacer ring
36	015	inner electrode
35	015	capacitive sensor plate
34	015	capacitive sensor case

ref.	draw.	added legend
51	009	actuator coil
50	016	trasformer coil
49	016	Faraday screen
48	016	trasformer support
47	016	spacer trasformer

LIGO PROJECT

designed for: R.De Salvo
draw. by: G.Gennaro-PROMEC
date: 7-05-08

title
CAPACITIVE TILTMETER
WITH FLEXURE HINGE

LIGO-D081003-00-D

scale: 1/2 | A 2