Full Bridge Force Transducer Circuit

IN125

lever IN
+ 5V

1	V_+	V_{ref} 10V	16
2	sleep	V_{ref} 5V	15
3	V_-	V_{ref} 2.5V	14
4	V_{ref} Out	V_{ref} BG	13
5	I_A	V_{ref} Com	12
6	V_{in}^+	Sense	11
7	V_{in}^-	V_{out}	10
8	R_G	R_G	9

instrumentation amplifier

red wire

green wire

lever

blue wire

black wire

56Ω

$G = \dfrac{60\Omega}{56\Omega}$

$V_0 = (V_{in}^+ - V_{in}^-)\, G$

to   lever IN AO
&   behavior IN AO