

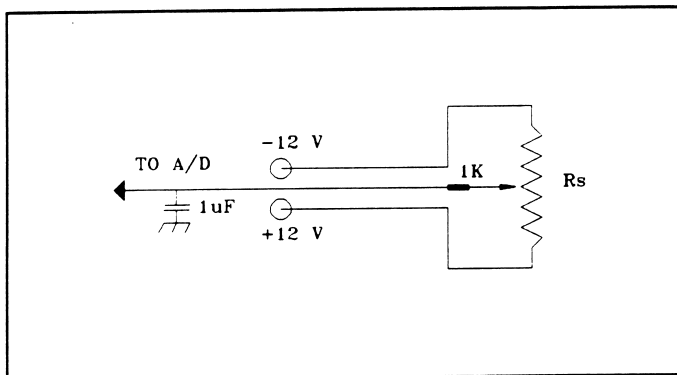
SYSTEM PARAMETERS

5.2.4 SEESAW

PARAMETER	SYMBOL	VALUE	UNITS
I SEESAW + I TRACK MASS	M	3.3	Kg
I SEESAW + I TRACK INERTIA	J*	0.42	Kgm ²
CENTER OF GRAVITY	c*	0.058	m
HEIGHT OF TRACK	h*	0.14	m
POTENTIOMETER RESISTANCE		10	K Ω
BIAS RESISTORS		0	Ω
BIAS VOLTAGE	Vb	+/- 12	Volts
GEAR RATIO TO FULCRUM SHAFT		3	N/A
SENSITIVITY	Ks	0.204	V/deg
RANGE		+/- 15	Deg

* at nominal height / factory setting. Values change with height h

The equivalent circuit that is achieved using the Quick Connect Module (QCM) is shown below in figure WI 10.



WI- 10 Wiring the seesaw angle sensor