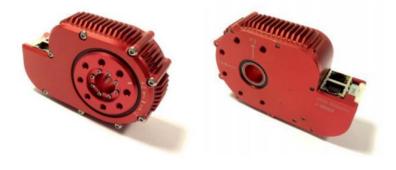
Data Signals X5

• Measurable Signals (sensors)

1.	Output Angle	$ heta_o$	(HEBI Encoder 1)
2.	Motor Angle	$ heta_m$	(HEBI Encoder 2)
3.	Motor Current	I_m	(HEBI Ammeter)
4.	Ambient Temperature	T_a	(HEBI Thermocouple)
5.	Bus Voltage	V_{bus}	(HEBI Voltmeter)
6.	Body Acceleration	$oldsymbol{a}_b$	(HEBI IMU)
7.	Body Angular Velocity	$\boldsymbol{\omega}_b$	(HEBI IMU)



HEBI X5 Series Elastic Actuator.

