

BH8-280**Quick Reference Commands**

Motor Prefixes

Finger 1 = 1

Finger 2 = 2

Finger 3 = 3

Spread = S

All Fingers = G

Motor Commands				
<i>Name</i>	<i>Code</i>	<i>Arguments</i>	<i>Syntax</i>	<i>Example</i>
Close	C	none	[motors]C	SC
Open	O	none	[motors]O	12O
Hand Initialize	HI	none	HI	HI
Home	HOME	none	[motors]HOME	SGHOME
Incremental Open	IO	distance (0-20000)	[motors]IO <distance>	SIO 4000
Incremental Close	IC	distance (0-20000)	[motors]IC <distance>	12 IC 100
Realtime Mode	LOOP	none	LOOP	LOOP
Move To	M	distance (0-20000)	[motors]M <distance>	3M 7000
Terminate Power	T	none	[motors]T	123T
Torque Close	TC	none	[motors]TC	GTC
Torque Open	TO	none	[motors]TO	1TO
Reset	RESET	none	RESET	RESET
Finger Set	FSET	<name><value>	[motors]FSET <prop><value>	
Finger Get	FGET	<name>	[motors]FGET <propname>	
Property Set	PSET	<name><value>	[motors]PSET <prop><value>	
Property Get	PGET	<name>	[motors]PGET <propname>	
Help	?	<commandname>	?<commandname>	?HI
Version Check	VERS	none	VERS	VERS

General Properties*(PGET or PSET)*

Temperature	TEMP	(returns in tenths of a degree celcius)
Peak Temperature	PTEMP	(returns in tenths of a degree celcius)
Overtemp Temp.	OTEMP	(returns in tenths of a degree celcius)

Finger Properties*[motors](FGET or FSET)*

Strain Gauge	SG		Status: 0=Reset 2=Ready	STAT
Max. Torque	MT	(in mA)	0= Idle, 2=Torque, 3=PID	MODE
Velocity	V	(in enc cts./ms)	4= Velocity, 5 = Trapezoidal	
Motor Position	P		Proportional Gain Constant	KP
Default Position	DP		Derivative Gain Constant	KD
Open Target	OT		Integral Gain Constant	KI
Close Target	CT		Joint Position	JP
Default Step Size	DS		Maximum Velocity	MV
High Strain Gauge	HSG			THERM
Low Strain Gauge	LSG			

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Incremental Close	IC	distance (0-20000)	[motors]IC <distance>	12 IC 100
Realtime Mode	LOOP	none	LOOP	LOOP
Move To	M	distance (0-20000)	[motors]M <distance>	3M 7000
Terminate Power	T	none	[motors]T	123T
Torque Close	TC	none	[motors]TC	GTC
Torque Open	TO	none	[motors]TO	1TO
Reset	RESET	none	RESET	RESET
Finger Set	FSET	<name><value>	[motors]FSET <prop><value>	
Finger Get	FGET	<name>	[motors]FGET <propname>	
Property Set	PSET	<name><value>	[motors]PSET <prop><value>	
Property Get	PGET	<name>	[motors]PGET <propname>	
Help	?	<commandname>	?<commandname>	?HI
Version Check	VERS	none	VERS	VERS

General Properties		<i>(PGET or PSET)</i>
Temperature	TEMP	(returns in tenths of a degree celcius)
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Finger Properties			BH8-262 Specific Properties	
<i>[motors](FGET or FSET)</i>			Breakaway Detection Threshold	BDAT
Strain Gauge	SG		Breakaway Detected Flag	BD
Max. Torque	MT	(in mA)	Position of last breakaway	BP
Velocity	V	(in enc cts./ms)	Motor stop flag for breakaways	BS
Motor Position	P		Proportional gain for motor filter	FPG
Default Position	DP		Derivative zero for motor filter	FDZ
Open Target	OT		Integral Pole for motor filter	FIP
Close Target	CT		Maximum "Close" Velocity	MCV
Default Step Size	DS		Maximum "Open" Velocity	MOV
High Strain Gauge	HSG			
Low Strain Gauge	LSG			