

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 | <i>(PGET or PSET)</i> | |
|---------------------------|-----------------------|---|
| 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 | <i>[motors](FGET or FSET)</i> | | BH8-280 Specific Properties | |
|--------------------------|-------------------------------|------------------|------------------------------------|-------|
| 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 | | | |

BH8-262

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| 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 | | <i>(PGET or PSET)</i> |
|---------------------------|-------|---|
| Temperature | TEMP | (returns in tenths of a degree celcius) |
| Peak Temperature | PTEMP | (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 | | | |