Open Bionics Serial Commands - Beetroot

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Grip Control (G#, K#)

Command Description

G0 Fist

G1 Hook

G2 Point

G3 Pinch

G4 Tripod

G5 Finger Roll

G6 Thumb Roll

Finger Control (F#, P##, S##)

Command Description

F# Move finger, # is the finger number (F0 - F3)

F# P50 Finger # to position 50 (P0 - P100)

F# S255 Finger # at speed 255 (S0 - S255)

Muscle Control (M#, U#, T#, N)

Command Description

M0 Muscle control OFF

M1 Standard muscle control ON

M2 Muscle position control ON

M3 Toggle whether to display SIMPLE muscle readings

M4 Toggle whether to display DETAILED muscle readings

Advanced Settings (H#, A#, ?)

Command Description

H View hand configuration (LEFT or RIGHT)

H1 Set hand to be RIGHT

H2 Set hand to be LEFT

A0 Toggle 'Automatic Demo Mode' ON/OFF

A1 Toggle 'Serial Commands Instructions' ON/OFF

A2 Toggle 'Wait For Serial Connection' ON/OFF

A3 Enable/Disable motors

A4 Enable/Disable CSV mode (fast control)

A5 Enable/Disable HANDle mode (Wii Nunchuck)

A6 Get the position of all fingers as a CSV string

# Display system diagnostics

? Display serial commands list

Examples

H2 Set hand to be configured as a LEFT hand

G0 O Fist Grip Open

G2 C Thumbs Up Close

F0 O Thumb Open

F0 Toggle thumb direction (open/close)

F1 P50 Index to position 50

F2 P50 S80 Middle finger to position 50 at speed 80

F0 O S200 Thumb Open at speed 200

A0 Enable/Disable demo mode

Motors disabled, enter 'A3' to re-enable them