

Detect-O-Bot 1000 Command Syntax

Serial commands sent to embedded platform

All commands are eight characters in length, with a three character command prefix followed by a coded value.

All commands will echo back the same three character prefix with an incrementing command counter appended in the last five characters.

Legend: X = don't care
 Uppercase letter = parameter value

System	Command prefix	Usage
General		
Ping	png	pngXXXXX
Abort	abt	abtXXXXX
Resume (buggy)	res	resXXXXX
Drive Motors		
Speed percent	mov {motorNum} {speed}	movNSSSS
	N = motor number 0 or 1, value of 2 means both motors	
	SSSS = speed in percentage from 0 - 100	
Speed/Distance	dst {motorNum} {distance}	dstNTDDD
	N = motor number 0 or 1, value of 2 means both motors	
	T = 0 to set a speed, 1 to set a distance	
	DDD = speed in mm/s or distance to travel in cm	
Spin in place	spn {distance}	spnDDDDD
Motor 1 goes	in reverse at 50%, motor 2 goes forward at 50%	
	DDDDD = distance for motors to travel in cm	
Force Stop	stp	stpXXXXX
	Forcefully set both motor PWM values to zero (to stop high frequency whine)	
Lights		
Toggle laser	aim	aimXXXXX