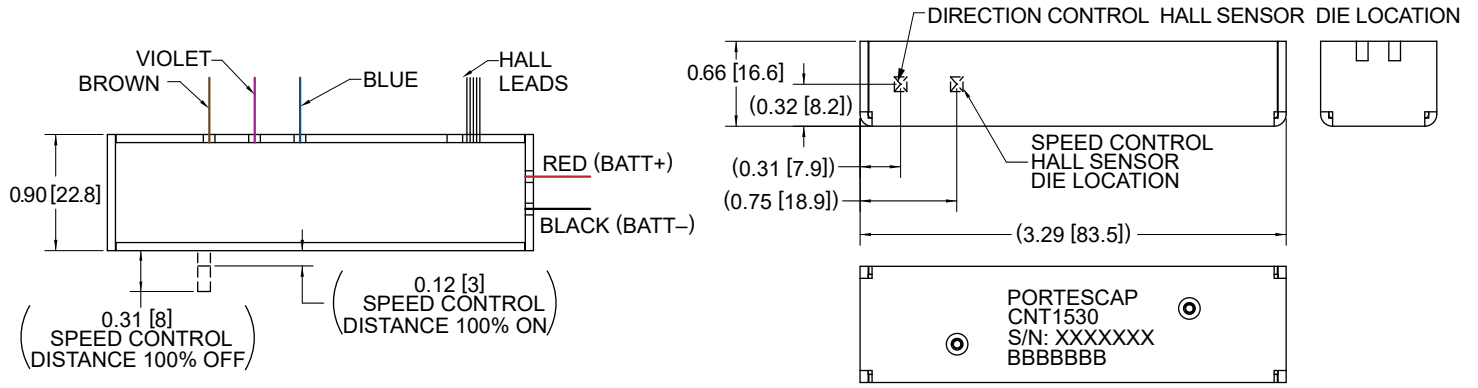


CNT1530

SMS Controller



Dimensions in inches [mm]

Electrical Data	CTN1530	Unit
1 Min. Operating Voltage	9	Volt
2 Max. Operating Voltage	15	Volt
3 Standby Current	40	mA DC
4 Current Limit {1}	>75 for >10 ms	A DC
5 Max. Continuous Input Power	300	W
6 Continuous Output Current	20	A DC
Operating Modes		
7 Control Method	Open Loop Speed	
8 Switching Waveform	Trapezoidal	
9 Feedback Type	Sensored	
Inputs		
10 Hall Sensors	H1, H2, H3	
11 Power Input	BATT+, BATT-	
12 Magnetic Triggers	Direction (FD/REV), Speed (0-100% PWM)	
13 Recommended Speed Magnet Grade {2}	SmCo 1:5	
14 Recommended Speed Magnet Dimensions	4.76 x 1.52 (0.188" x 0.060") Dia x Thick	mm (in)
15 Recommended Direction Magnet Grade {2}	SmCo 1:5	
16 Recommended Direction Magnet Dimension	3.18 x 3.18 (0.125" x 0.125") Dia x Thick	mm (in)
Outputs		
17 Phase Leads	A, B, C	
Environmental		
18 Maximum Storage Temperature	150 (302)	°C (°F)
19 Autoclave Cycles	1,000	
Mechanical		
20 Housing Material	Aluminum	
21 Dimensions	22.8 x 83.5 x 16.6 (0.90 x 3.29 x 0.66)	mm (in)
22 Weight	70 (2.5)	g (oz)
23 Wire Insulation Material	PTFE	
24 Power Lead AWG	18	
25 Hall Sensor Lead AWG	26	

- Notes:**
1. Current limit allows brief excursions beyond 75ADC so long as they are less than 10ms in length. The response time is dependent upon the slew rate of the current excursion, and the current limit features is intended to prevent against prolonged motor stall conditions from inducing further damage in the system.
 2. Recommended SmCo 1:5 Disk Magnets are suggestions for the appropriate magnet to incorporate into the speed trigger and direction switch in the customer's handpiece. Please contact Portescap with further specification questions.