

Stepper Positioning Module HE800STP100 Inputs / Outputs



This product has a detailed supplement (SUP0270) available.

SPECIFICATIONS

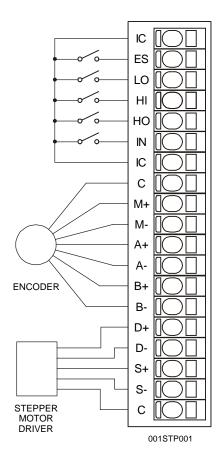
INPUT	STP100			STP100
ISOLATED INPUTS				
LOW LEV	LOW LEVEL (+2mA)		ISOLATION	
Emergency Stop (ES)			Emergency Stop (ES)	
Home (HO)			Home (HO)	
Index (IN)	0 - 9 VDC		Index (IN)	500 VDC min.
High Limit (HILIM)			High Limit (HILIM)	
Low Limit (LOLIM)			Low Limit (LOLIM)	
DIFFERENTIAL INPUTS				
Encoder Frequency	0 - 1.0 MHz		Encoder Differential Threshold Low	-0.2 VDC min.
Encoder Single-Ended Threshold	1.2 – 1.6 VDC		Encoder Differential Threshold High	+0.2 VDC max.

OUTPUT	STP100			STP100
DIFFERENTIAL OUTPUTS				
Step Frequency	0 - 245 KHz		Direction Output Setup Time	2 ms. max.
Step Output High @ -20 mA	2.5 VDC min.		Direction Output High @ -20 mA	2.5 VDC min.
Step Output Low @ +20 mA	0.5 VDC max.		Direction Output Low @ +20 mA	0.5 VDC max.

GENERAL SPECIFICATIONS				
Required Power (Steady State)	0.17W (7.15mA @ 24VDC)	CE	Refer to MAN0005	
Required Power (Inrush)	0.38W (16.2mA @ 24VDC)	UL	Refer to SUP0259	
Relative Humidity	5 to 95% Non-condensing	Terminal Type	Spring Clamp, Removable	
Operating Temperature	0° to 60° Celsius	Weight	9.5 oz. (270 g)	
Storage Temperature	-40° to +85° Celsius			

MAN0270-06

2 WIRING

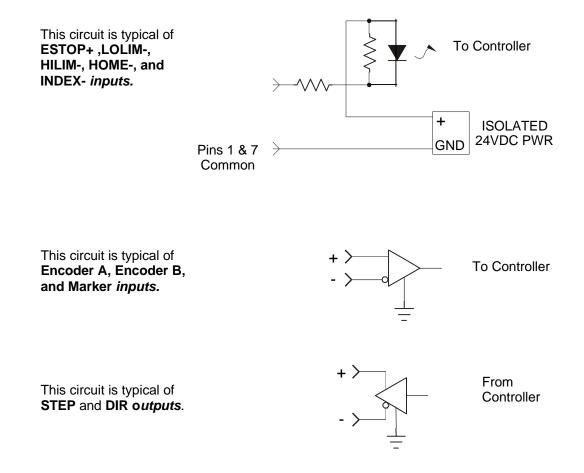


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Corresponding I/O Pin

Pin	Signal	STP100 Description		
	ISOLATED			
1	IC	Isolated Common		
		ESTOP+		
2	ES	Emergency Stop, Active High (Open),		
		24 Vdc Pull Up		
		LOLIM-		
3	LO	Lower limit, Active Low (Closed),		
		24 Vdc Pull Up HILIM-		
4	н	HILIM- High limit, Active Low (Closed),		
4	111	24 Vdc Pull Up		
		HOME-		
5	НО	Home, Active Low (Closed),		
Ũ		24 Vdc Pull Up		
		INDEX-		
6	IN	Index, Active Low (Closed),		
		24 Vdc Pull Up		
7	IC	Isolated Common		
		NON-ISOLATED		
		Common		
8	С	Connected internally to bus		
		common		
9	M+	MARK+		
-		Encoder Marker Positive Input		
10	M- A+	MARK-		
		Encoder Marker Negative Input ENC A+		
11		Encoder Channel A Positive Input		
		Encoder onamer A rositive input		
12	A-	Encoder Channel A Negative		
		Input		
40	D .	ENC B+		
13	B+	Encoder Channel B Positive Input		
		ENC B-		
14	B-	Encoder Channel B Negative		
		Input		
15	D+	DIR+		
13		Direction Positive Output		
16	D-	DIR-		
		Direction Negative Output STEP+		
17	S+			
		Step Positive Output STEP-		
18	S-	Step Negative Output		
		Common		
19	С	Connected internally to bus		
	C	common		
1	1			

3 INTERNAL CIRCUIT SCHEMATICS



4 CONFIGURATION

Note: The status of the I/O can be monitored in Cscape Software.

See the Supplement for the Stepper Positioning Module (SUP0270) for detailed information covering configuration and input/output modes.

5 INSTALLATION / SAFETY

Warning: Remove power from the OCS controller, CAN port, and any peripheral equipment connected to this local system before adding or replacing this or any module.

a. All applicable codes and standards are to be followed in the installation of this product.

b. Use the following wire type or equivalent: Belden 8917, 16 AWG or larger.

For detailed installation information, refer to Chapter Two in the Control Station Hardware Manual (MAN0227). A <u>handy checklist</u> is provided that covers panel box layout requirements and minimum clearances.

6 TECHNICAL ASSISTANCE

For assistance, contact Technical Support at the following locations:

North America:

(317) 916-4274 or visit our website at www.heapg.com.

Europe:

(+) 353-21-4321-266