

Stogra Control Amplifier Connection Scheme

**Stepper Motor**  
Terminal Block Connection

Function	Core Colour	Pin Number
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Phase 2-	white	1
Phase 1-	brown	2
Phase 2+	green	3
Phase 1+	yellow	4

reference switch	gray	5
CW end switch	pink	6
CCW end switch	blue	7
common switch	red	8

Vref+	black	9
Vposition	violet	10
Vref-	gray/pink	11

**Stogra SE400.04.60V33**  
Back Panel Connection

Pin Number	Function
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4	Phase 2-
2	Phase 1-
3	Phase 2+
1	Phase 1+

5	
6	Ground
7	Pulse
8	
9	
10	
11	
12	
13	
14	
15	Direction
16	

**Siemens SIMATIC ET200S**

1STEP	24V DO	DI	AI
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Pin Number	Function	Pin Number	Function	Pin Number	Function	Pin Number	Function
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7	reference switch
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1	CW end switch
5	CCW end switch

1	Pulse
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8	Direction
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1	Vref+
5	Vposition
2, 6	Vref-

**Power Distribution**

10 V	24 V
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+24 V

+10 V

-10 V

+24 V

Elgo ZSX Control Amplifier Connection Scheme

**Stepper Motor Terminal Block Connection**

Equipment	Function	Core Colour	Pin Number	Link Wire
Stepper Motor	coil 3-		1	
	coil 1-		2	3
	coil 2+		3	2
	coil 2-		4	
	coil 4+		5	
	coil 3+		6	7
	coil 4-		7	6
	coil 1+		8	

Reference Switch	V+	1
	normal open	2
	normal closed	3
CW Switch	V+	4
	normal open	5
	normal closed	6
CCW Switch	V+	7
	normal open	8
	normal closed	9
Position Sensor	Vreference+ (1)	10
	Vposition (2)	11
	Vreference- (3)	12

**Stepper Motor Chassis Back Panel Connection**

Pin Number	Connector	Function
8	Burndy 12p female	Phase 2-
2		Phase 1-
5		Phase 2+
1		Phase 1+

	Burndy 4p female	+10 V
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	Burndy 4p female	-10 V
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Pin	Connector	Function
6	Burndy 19p male	direction neg.
7		pulses neg.
8		direction
9		pulses
10		enable
11		GND
16		GND

**Siemens SIMATIC ET200S**

1STEP		24V DO		DI		AI	
Pin Number	Function	Pin Number	Function	Pin Number	Function	Pin Number	Function


7	reference switch
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1	CW end switch
---	---------------

5	CCW end switch
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1	Vref+
5	Vposition
2, 6	Vref-

8	Direction
5	Pulse
4	Direction
1	Pulse

**Power Distribution**

10 V	24 V
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+24 V

+24 V

+24 V