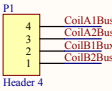


Damper 1

Damper Controller

Controls 4 dampers connected to the Stepper Motor Bus, and Open and Close Bus

Damper 2



Damper 4

Indicate which Damper is on or off

Engineer: Levi Balling	Title: Damper Section	U of U Computer Engineering 50 S Central Campus Dr. Rm. 3280 MEB SLC, UT 84112	Smart Home
Drawn By: Levi Balling	Size: B	Revision: 2	
Checked By: Dell Hanks	Number: 1	Project: Smart Home	
Date: 8/18/2012	File: DamperSection SchDoc	Website: www.eng.utah.edu/~lbaling/SmartHome	
Time: 10:35:01 AM	Sheet 8 of 13		

Bill of Materials

Damper Section

Source Data From: DamperSectionProject.PrjPCB

Project: DamperSectionProject.PrjPCB

Variant:	None
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Creation Date: 8/18/2012 10:35:13 AM

Print Date: 18-Aug-12 10:35:20 AM

Footprint	Comment	LibRef	Designator	Description	Quantity
DO-35	Diode 1N4148	Diode 1N4148	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D15, D16, D17, D18	High Conductance Fast Diode	16
LED-0	LED_White	LED0	D13, D14, D19, D20	Typical INFRARED GaAs LED	4
DSUB1.385-2H9	D Connector 9	D Connector 9	J1, J2, J3, J4	Receptacle Assembly, 9 Position, Right Angle	4
Relay SPDT Tayda	SPDT	SPDT	K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16		16
HDR1X4	Header 4	Header 4	P1	Header, 4-Pin	1
HDR1X2	Header 2	Header 2	P2	Header, 2-Pin	1
HDR1X7	Header 7	Header 7	P3	Header, 7-Pin	1
2N3904	2N3904	2N3904	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20	NPN General Purpose Amplifier	20
AXIAL-0.3	Res1	Res1	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40	Resistor	40

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Approved

Notes

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