

WIRE LIST - ELITE WOODWORKER
 MASSO Controller S/N G3-16859

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POWER DISTRIBUTION

FROM	TO	WIRE						COMMENT
PS1-	RM-	20AWG						0VDC
PS1-	DB25F-24	20AWG						0VDC for Stack Light
PS1+	RM+	20AWG						+24VDC
PS1+	RL1..4C	20AWG						+24VDC
PS1+	DB25F-21	22AWG						+24VDC
PS2-	MF2-1	20AWG						0VDC LED Power Supply for Gantry Light
	0 DB25M-15	20AWG						+12VDC LED Power Supply for Gantry Light
DB25F-24	PS3-	20AWG						0VDC for 5V DC-DC Step Down Converter for Laser Pointer

Not Req'd - 110V switched by PSC

OPERATOR CONTROL PANEL

							OneFinity Assignment		
FROM	TO	WIRE	CABLE	FROM	TO	WIRE	I/O ASSIGN	COMPONENT	COMMENT
INPUT 1	DB15F-1	22AWG	DB15	DB15M-1	SW1-1	22AWG	Cycle Start	SW-PB NO MOM	Cycle Start (Job Group)
INPUT 2	DB15F-2	22AWG	DB15	DB15M-2	SW2-1	22AWG	Cycle Stop	SW-PB NO MOM	Cycle Stop (Job Group)
INPUT 3	DB15F-3	22AWG	DB15	DB15M-3	SW3-1	22AWG	Go To Parking Position	SW-PB NO MOM	Park (Job Group)
INPUT 4	DB15F-4	22AWG	DB15	DB15M-4	SW4-1	22AWG	Aux Output 2 - Toggle	SW-PB NO MOM	Gantry Light
INPUT 5	DB15F-5	22AWG	DB15	DB15M-5	SW5-A	22AWG	Coolant Flood On	SW - TG ST	Vacuum On - might replace with Door Sensor
INPUT 6	DB15F-6	22AWG	DB15	DB15M-6	SW5-B	22AWG	Coolant Flood & Mist Off	SW - TG ST	Vacuum Off - would become redundant if Vacuum On is replaced with Door Sensor
INPUT 7	DB15F-7	22AWG	DB15	DB15M-7	SW5-1	22AWG	Autoload G-Code 1	SW-PB NO MOM	Initiate Tool Change?
INPUT 8	DB15F-8	22AWG	DB15	DB15M-8	SW6-1	22AWG	Jog/Rapid Mode	SW - TG ST	Jog Step/Continuous
INPUT 9	DB15F-9	22AWG	DB15	DB15M-9	JS NO A-1	22AWG	Jog/Rapid X+	JS NO A	Jog +X
INPUT 10	DB15F-10	22AWG	DB15	DB15M-10	JS NO B-1	22AWG	Jog/Rapid X-	JS NO B	Jog -X
INPUT 11							Tool Setter		Tool Setter
INPUT 12							Probe		Probe
INPUT 13							X-Home Sensor		X-Home Sensor
INPUT 14							Y-Home Sensor		Y-Home Sensor
INPUT 15							Z-Home Sensor		Z-Home Sensor
INPUT 16							B-Home Sensor		B-Home Sensor
INPUT 17	DB15F-11	22AWG	DB15	DB15M-11	JS NO C-1	22AWG	Jog/Rapid Y+	JS NO C	Jog +Y
INPUT 18	DB15F-12	22AWG	DB15	DB15M-12	JS NO D-1	22AWG	Jog/Rapid Y-	JS NO D	Jog -Y
INPUT 19							X-Axis Motor Alarm		X-Axis Motor Alarm
INPUT 20							Y-Axis Motor Alarm		Y-Axis Motor Alarm
INPUT 21							Z-Axis Motor Alarm		Z-Axis Motor Alarm
INPUT 22							B-Axis Motor Alarm		B-Axis Motor Alarm
INPUT 23	DB15F-13	22AWG	DB15	DB15M-13	SW7-A	22AWG	Jog/Rapid Z+	SW-TG DT MOM	Jog UP
INPUT 24	DB15F-14	22AWG	DB15	DB15M-14	SW7-B	22AWG	Jog/Rapid Z-	SW-TG DT MOM	Jog DN
POWER	DB15F-15	22AWG	DB15	DB15M-15	COM (+VE)	22AWG	N/A		Common +24VDC for all input switches
USB									Connect Macro Keypad
OPTIONS:									
	DB15F-?	22AWG	DB15	DB15M-?		22AWG	Door Sensor		CNC Gate - Sense Open or Closed - Requires 5.6k current limiting resistor
	DB15F-2	22AWG	DB15	DB15M-2	SW2-1	22AWG	Go To Home Machine	SW-PB NO MOM	Home Position
	DB15F-?	22AWG	DB15	DB15M-?	SW?-1	22AWG	Gcode Rewind		Rewind
	DB15F-?	22AWG	DB15	DB15M-?	SW?-1	22AWG	Spindle CW - On/Off (Beta)		Spindle

11.5in

RELAY MODULE

FROM	TO	WIRE					I/O ASSIGN	COMPONENT	COMMENT
OUTPUT 1	RM1-1	22AWG					Tower Light-Green		On when Homing, running job, flashes when paused
OUTPUT 2	RM1-2	22AWG					Tower Light-Yellow		Flashes before Homing and during Homing Cycle

OUTPUT 3	RM1-3	22AWG					Tower Light-Red		Flashes before Homing and when in E-Stop
OUTPUT 4	RM1-4	22AWG					Laser Pointer		
OUTPUT 5	RM1-5	22AWG					Coolant Flood	Vacuum	Was OUTPUT 18 - this disables the pre-wired Vacuum outlet switching in the Power Supply Controller (PSC)
OUTPUT 6	RM1-6	22AWG					Spare		

MACHINE I/O

FROM	TO	WIRE	CABLE	FROM	TO	WIRE	DESC / I/O ASSIGN	COMPONENT	COMMENT
RL1NC	DB25F-1	20AWG	DB25	DB25M-1					
RL1NO	DB25F-2	20AWG	DB25	DB25M-2	MF1-3	22AWG	Green Stack Light	5 POS Micro-Fit	Green Stack Light
RL2NC	DB25F-3	20AWG	DB25	DB25M-3					
RL2NO	DB25F-4	20AWG	DB25	DB25M-4	MF1-4	22AWG	Yellow Stack Light	5 POS Micro-Fit	Yellow Stack Light
RL3NC	DB25F-5	20AWG	DB25	DB25M-5					
RL3NO	DB25F-6	20AWG	DB25	DB25M-6	MF1-5	22AWG	Red Stack Light	5 POS Micro-Fit	Red Stack Light
RL4NC	DB25F-7	20AWG	DB25	DB25M-7					
RL4NO	DB25F-8	20AWG	DB25	DB25M-8	PS3+ IN	20AWG	Laser Pointer	DC-DC Converter	Laser Pointer +5V
RL5NC	DB25F-10	20AWG	DB25	DB25M-10					
RL5NO	DB25F-11	20AWG	DB25	DB25M-11	TB1-2	22AWG	Vacuum	Terminal Block	Vacuum
RL5C	DB25F-12	20AWG	DB25	DB25M-12	TB1-1	22AWG	Vacuum	Terminal Block	Vacuum
RL6NC	DB25F-13	20AWG	DB25	DB25M-13					
RL6NO	DB25F-14	20AWG	DB25	DB25M-14					Spare
RL6C	DB25F-15	20AWG	DB25	DB25M-15					Spare
	DB25F-16		DB25	DB25M-16					
ESTOP1	DB25F-17	22AWG	DB25	DB25M-17	ES2-BLK		External E-Stop		External E-Stop (Short DB25M-17&18 when no External E-Stop(s) are fitted)
ESTOPSW	DB25F-18	22AWG	DB25	DB25M-18	ES2-RED		External E-Stop		External E-Stop (Short DB25M-17&18 when no External E-Stop(s) are fitted)
	DB25F-19		DB25	DB25M-19					
	DB25F-20		DB25	DB25M-20					
	DB25F-21		DB25	DB25M-21					
	DB25F-22		DB25	DB25M-22					
	DB25F-23		DB25	DB25M-23					
0VDC (PS1-)	DB25F-24	20AWG	DB25	DB25M-24	MF1-1/PS3- IN	22AWG	0VDC for Stack Light/PS3-		0VDC for Stack Light and PS3-
	DB25F-25		DB25	DB25M-25					
	DB25F-14	20AWG	DB25	DB25M-14	MF2-2	20AWG	Gantry Light	2 POS Micro-Fit	Gantry Light
PSC VAC	DB25F-15	20AWG	DB25	DB25M-15	PS2+	20AWG	12VDC for Gantry Light		12VDC for Gantry Light
SPINDLE							CW		
SPINDLE							CCW		
OUTPUT 7									
OUTPUT 8									
OUTPUT 9									
OUTPUT 10									
OUTPUT 11							Laser Engraving (PWM)		
OUTPUT 12									
OUTPUT 13									
OUTPUT 14									
OUTPUT 15									
OUTPUT 16									
OUTPUT 17									
OUTPUT 18	(Pre-wired)						Auxiliary 2	Gantry Light	Re-assigned so PS2 for the Gantry Light can use the PSC VAC outlet relay
RELAY1				Not Used					LED or Relay <400mA
RELAY2				Not Used					LED or Relay <400mA
RELAY3				Not Used					LED or Relay <400mA
RELAY4				Not Used					LED or Relay <400mA

RELAY5			Not Used					LED or Relay <400mA
RELAY6			Not Used					LED or Relay <400mA