

Smart Wooden Dummy Arduo Pinout (LSB, 8-18-19)

MASTER		SLAVE - ARMS		SLAVE - TRUNK	
Pin Name	Destination	Pin Name	Destination	Pin Name	Destination
Analog pin 0	---	Analog pin 0	Sensor1 X-axis	Analog pin 0	Accel.4 X-axis
Analog pin 1	---	Analog pin 1	Sensor2 X-axis	Analog pin 1	Accel.4 Y-axis
Analog pin 2	"Time" dial-, GND ¹	Analog pin 2	Sensor3 X-axis	Analog pin 2	Accel.4 Z-axis
Analog pin 3	"Speed" dial-, GND ¹	Analog pin 3	---	Analog pin 3	---
Analog pin 4	"Force" dial-, GND ¹	Analog pin 4	Sensor1 Y-axis	Analog pin 4	---
Analog pin 5	"Cal" dial-, GND ¹	Analog pin 5	Sensor2 Y-axis	Analog pin 5	---
Analog pin 6	---	Analog pin 6	Sensor3 Y-axis	Analog pin 6	---
Analog pin 7	---	Analog pin 7	---	Analog pin 7	---
Analog pin 8	---	Analog pin 8	Sensor1 Z-axis	Analog pin 8	---
Analog pin 9	---	Analog pin 9	Sensor2 Z-axis	Analog pin 9	---
Analog pin 10	---	Analog pin 10	Sensor3 Z-axis	Analog pin 10	---
Analog pin 11	---	Analog pin 11	Sensor1 LED-,GND ³	Analog pin 11	---
Analog pin 12	---	Analog pin 12	Sensor2 LED-,GND ³	Analog pin 12	---
Analog pin 13	---	Analog pin 13	Sensor3 LED-,GND ³	Analog pin 13	---
Analog pin 14	---	Analog pin 14	---	Analog pin 14	---
Analog pin 15	---	Analog pin 15	---	Analog pin 15	---
Analog Ref.	---	Analog Ref.	VCC (3.3V)	Analog Ref.	VCC (3.3V)
Dig.pins 0-14	---	Dig.pins 0-14	---	Dig.pins 0-14	---
Digital pin 15	---	Digital pin 15	Sensor1 LED+	Digital pin 15	---
Digital pin 16	---	Digital pin 16	Sensor2 LED+	Digital pin 16	---
Digital pin 17	---	Digital pin 17	Sensor3 LED+	Digital pin 17	---
Digital pin 18	---	Digital pin 18	---	Digital pin 18	---
Digital pin 19	---	Digital pin 19	---	Digital pin 19	---
Digital pin 20	SDA BUS	Digital pin 20	SDA BUS	Digital pin 20	SDA BUS
Digital pin 21	SCL BUS	Digital pin 21	SCL BUS	Digital pin 21	SCL BUS
Digital pin 22	---	Digital pin 22	---	Digital pin 22	Sen.4 LimitSwitch- ²
Digital pin 23	---	Digital pin 23	---	Digital pin 23	Sen.5 LimitSwitch- ²
Digital pin 24	---	Digital pin 24	---	Digital pin 24	Sen.6 LimitSwitch- ²
Digital pin 25	---	Digital pin 25	---	Digital pin 25	
Digital pin 26	"Start" buzzer+	Digital pin 26	---	Digital pin 26	
Digital pin 27	---	Digital pin 27	---	Digital pin 27	
Digital pin 28	---	Digital pin 28	---	Digital pin 28	Sensor4 LED+
Digital pin 29	---	Digital pin 29	---	Digital pin 29	Sensor5 LED+
Digital pin 30	---	Digital pin 30	---	Digital pin 30	Sensor6 LED+
Digital pin 31	---	Digital pin 31	---	Digital pin 31	
Digital pin 32	---	Digital pin 32	---	Digital pin 32	Sensor4 LED-,GND ³
Digital pin 33	StartButton-,GND ²	Digital pin 33	---	Digital pin 33	
Dig.pins 33-49	---	Dig.pins 33-49	---	Dig.pins 33-49	
Digital pin 50	---	Digital pin 50	---	Digital pin 50	Sensor5 LED-,GND ³
Digital pin 51	---	Digital pin 51	---	Digital pin 51	Sensor6 LED-,GND ³
Digital pin 52	---	Digital pin 52	---	Digital pin 52	
Digital pin 53	---	Digital pin 53	---	Digital pin 53	
GND	Analog pin 2 ¹	GND	Sensor1 GND	GND	Digital pin 22 ²
GND	Analog pin 3 ¹	GND	Sensor2 GND	GND	Digital pin 23 ²
GND	Analog pin 4 ¹	GND	Sensor3 GND	GND	Digital pin 24 ²
GND	Analog pin 5 ¹	GND	Analog pin 11 ³	GND	Digital pin 32 ³
GND	"Start" buzzer-	GND	Analog pin 12 ³	GND	Digital pin 50 ³
GND	Digital pin 33 ²	GND	Analog pin 13 ³	GND	Digital pin 51 ³
GND	GROUND BUS	GND	GROUND BUS	GND	GROUND BUS
GND	LCD GND	GND	---	GND	Accel.4 GND
RESET	---	RESET	---	RESET	---
VCC (5V)	"Time" dial+,LCD+	VCC (5V)	Sensor1 VCC	VCC (5V)	Sen.4 LimitSwitch+
VCC (5V)	"Speed" dial+,SB+ ⁴	VCC (5V)	Sensor2 VCC	VCC (5V)	Sen.5 LimitSwitch+
VCC (5V)	"Force" dial-,GND ¹	VCC (5V)	Sensor3 VCC	VCC (5V)	Sen.6 LimitSwitch+
VCC (5V)	"Cal" dial-, GND ¹	VCC (5V)	---	VCC (5V)	Accel.4 VCC
VCC (3.3V)	---	VCC (3.3V)	Analog Ref.	VCC (3.3V)	Analog Ref.
VCC (3.3V)	---	VCC (3.3V)	---	VCC (3.3V)	---
VCC (3.3V)	---	VCC (3.3V)	---	VCC (3.3V)	---
VCC (3.3V)	---	VCC (3.3V)	---	VCC (3.3V)	---
XTAL1	---	XTAL1	---	XTAL1	---
XTAL2	---	XTAL2	---	XTAL2	---

1. Through 2K resistor

2. Through 47k Pull down resistor

3. Through 100 Ohm potentiometer

4. Start button +

Note: All "BUS"s are connected together by kind

Note: "---" indicates pin not used