Hardware

M5Stack Mini Dual Button Unit Connections

- Red Button connected to Arduino D6 → Yellow Wire

- Blue Button connected to Arduino D7 → White Wire

Power Supply for the 160 LEDs

The 220V power is connected to the pinball service power supply connection.

Source	Pin	Destination	Pin
Mean Well RD-65A	12V	Pinduino	12V
Mean Well RD-65A	5V	Pinduino	5V
Mean Well RD-65A	GND	Pinduino	GND
Mean Well RD-65A	GND	Pinball	GND
Mean Well RD-65A	GND	M5Stack Mini Dual Button Unit	GND
Mean Well RD-65A	5V	M5Stack Mini Dual Button Unit	5V
M5Stack Mini Dual Button Unit	Red Btn Input / Yellow Cable	Arduino Nano	D6
M5Stack Mini Dual Button Unit	Blue Btn Input / White Cable	Arduino Nano	D7
Arduino Nano	D10	LED Strip 1	D10
Arduino Nano	D11	LED Strip 2	D11

LED Mode Configuration

For the LED configuration, an M5Stack Mini Dual Button Unit is used.

M5Stack Mini Dual Button Functions:

Button	Presses	Function	Comment
Red	1	- Turn On	When not in playfield lighting color selection mode
		- Turn Off	
Blue (when LEDs on)	1	- Lighting Only	Only when LEDs are on
		- Full Effects	
Red	2	Full effects and maximum brightness Static color according to setting	When not in playfield lighting color selection mode
Blue	Held down	Adjust brightness	Not available in:
			- LED off mode
			- Playfield lighting color selection mode
Blue (when LEDs off)	1	Enters playfield lighting color selection mode	Only when LEDs are off

Playfield Lighting Color Selection Mode:

Button	Presses	Function	Comment
Red	1	Next color	
Red	2	Reset to first color	
Blue	1	Exits color selection mode	