

LX890 V1.1

Display Cable

3v3	1	2	CLK -> D14 #2 (brown)
SW (I/O Btn) -> Opto -> D27 #- (orange)	3	4	GND -> GND #3 (black)
5V -> Vin #1 (red)	5	6	DIO (Data) -> D13 #4 (white)
BUZ [7	8	GND
ST1 (Stop) --> ST2 [9	10	SDA (I2C)
(Stop) -> D26 #5 (gray)	11	12	STR (Start Btn) -> D25 #6 (violet)
OK (OK Btn) -> D33 #7 (blue)	13	14	SCL (I2C)
STB (CS) -> D15 #8 (green)	15	16	HOME (Home Btn) -> D32 #9 (yellow)

Stop Button Cable

- JIABEN FA7-6K-2100 Trigger switch
- 5V 1mA
- DPNO Hall Signal

cable	1	2	3	4
color	red	yellow	blue	black
signal	3v3	ST1	ST2	GND
release		0V	0V	
press		3v3	3v3	

Power Off

SW: 20V
all other: 0V

Power On

SW: 3V (released) / 0V (pressed)
OK: 3V (released) / 0V (pressed)
STR: 3V (released) / 0V (pressed)
HOME: 3V (released) / 0V (pressed)

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BUZ: 0V / 3V @ 2.5kHz
ST1 & ST2: 0V (released) / 3V (pressed)

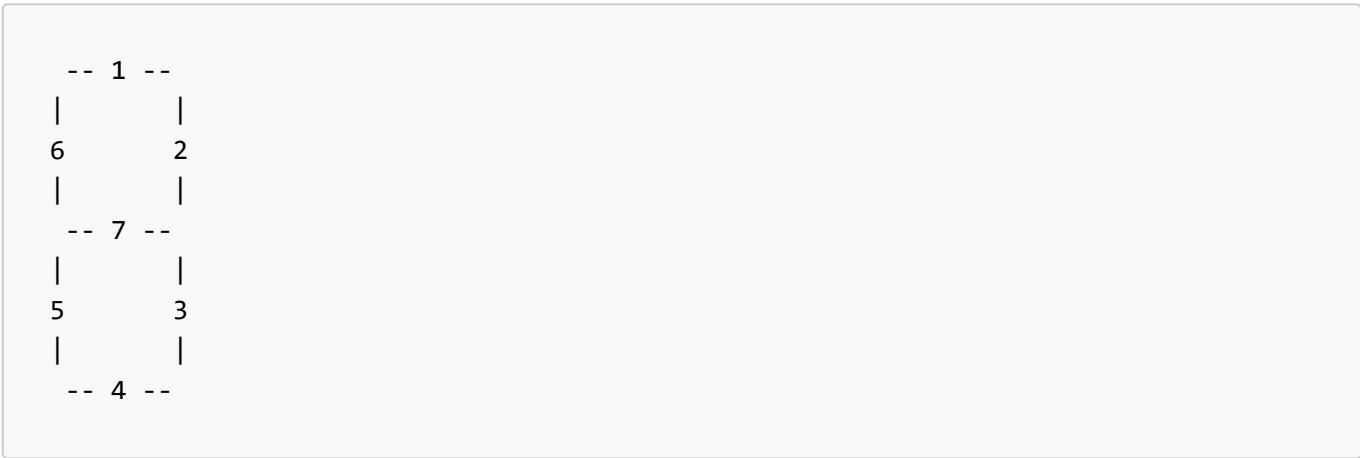
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Display Controller: TM1668

Display Protocol

- SPI mode: 0 / LSB
- CLK: *Clock 100kHz*
- DIO: *Data In/Out*
- STB: *Chip Select*

Segments



- SEG1 0x01
- SEG2 0x02
- SEG3 0x04
- SEG4 0x08
- SEG5 0x10
- SEG6 0x20
- SEG7 0x40

Examples

"-E6-"

Seq.	Raw	Command Description
1.1	88 / 8E	Display Control: dimmed / bright
2.1	03	Mode Setting: 7 Grids, 11 Segments
3.1	40	Data Setting: write, auto increment, normal operation
4.1	C0	Address Setting: 0
4.2	66	

Seq.	Raw	Command Description
4.3	00	
4.4	60	
4.5	00	
4.6	64	
4.7	00	
4.8	26	
4.9	00	
4.10	26	
4.11	00	
4.12	26	
4.13	00	
4.14	0F	
4.15	00	

"-E1-"

Seq.	Raw	Command Description
1.1	8E	Display Control: bright
2.1	03	Mode Setting: 7 Grids, 11 Segments
3.1	40	Data Setting: write, auto increment, normal operation
4.1	C0	Address Setting: 0
4.2	62	
4.3	00	
4.4	64	
4.5	00	
4.6	64	
4.7	00	
4.8	22	
4.9	00	
4.10	22	

Seq.	Raw	Command Description
4.11	00	
4.12	22	
4.13	00	
4.14	0B	
4.15	00	