

Raspberry - Pi4J

J8 Pin	Raspberry Pin	Belegung	I/O	Bemerkung
0	11	DT Zug 1	I	Pull_DOWN
1	12	DT Zug 2	I	Pull_DOWN
2	13	DT Zug 3	I	Pull_DOWN
3	15	CLK Zug 1	I	Pull_DOWN
4	16	CLK Zug 2	I	Pull_DOWN
5	18	CLK Zug 3	I	Pull_DOWN
6	22			
7	7			
8	3	SDA	I/O	Port Expander
9	5	SCL	I/O	Port Expander
10	24			
11	26			
12	19			
13	21			
14	23			
15	8			
16	10			
	1	3.3 VDC		
	2	5.0 VDC		
	4	5.0 VDC		
	6	GND		
21	29			
22	31			
23	33			
24	35			
25	37			
26	32			
27	36			
28	38			
29	40			
30	27			
31	28			
	9	GND		
	14	GND		
	17	3.3 VDC		
	20	GND		
	25	GND		
	30	GND		
	34	GND		
	39	GND		

SCL / SDA

I2C Adresse	Expander	Var Name	Pin	Belegung	I/O	Bemerkung
0x20	expander1	aDigit1	A0	A	O	Zug 1
0x20	expander1	bDigit1	A1	B	O	Zug 1
0x20	expander1	cDigit1	A2	C	O	Zug 1
0x20	expander1	dDigit1	A3	D	O	Zug 1
0x20	expander1	eDigit1	A4	E	O	Zug 1
0x20	expander1	fDigit1	A5	F	O	Zug 1
0x20	expander1	gDigit1	A6	G	O	Zug 1
0x20	expander1	punktDigit1	A7	punkt	O	Zug 1
0x20	expander1	aDigit2	B0	A	O	Zug 2
0x20	expander1	bDigit2	B1	B	O	Zug 2
0x20	expander1	cDigit2	B2	C	O	Zug 2
0x20	expander1	dDigit2	B3	D	O	Zug 2
0x20	expander1	eDigit2	B4	E	O	Zug 2
0x20	expander1	fDigit2	B5	F	O	Zug 2
0x20	expander1	gDigit2	B6	G	O	Zug 2
0x20	expander1	punktDigit2	B7	punkt	O	Zug 2
0x21	expander2	---	A0	---	---	
0x21	expander2	---	A1	---	---	
0x21	expander2	drehregler1Taster	A2	Dreh. Button Zug 1	I	Pull_UP
0x21	expander2	drehregler2Taster	A3	Dreh. Button Zug 2	I	Pull_UP
0x21	expander2	drehregler3Taster	A4	Dreh. Button Zug 3	I	Pull_UP
0x21	expander2	ledRichtung1	A5	LED Richtung Zug 1	O	
0x21	expander2	ledRichtung2	A6	LED Richtung Zug 2	O	
0x21	expander2	ledRichtung3	A7	LED Richtung Zug 3	O	
0x21	expander2	aDigit3	B0	A	O	Zug 3
0x21	expander2	bDigit3	B1	B	O	Zug 3
0x21	expander2	cDigit3	B2	C	O	Zug 3
0x21	expander2	dDigit3	B3	D	O	Zug 3
0x21	expander2	eDigit3	B4	E	O	Zug 3
0x21	expander2	fDigit3	B5	F	O	Zug 3
0x21	expander2	gDigit3	B6	G	O	Zug 3
0x21	expander2	punktDigit3	B7	punkt	O	Zug 3
0x22	lcdRelay	---	A0	---	---	
0x22	lcdRelay	---	A1	---	---	
0x22	lcdRelay		A2	LCD		
0x22	lcdRelay		A3	LCD		
0x22	lcdRelay		A4	LCD		
0x22	lcdRelay		A5	LCD		
0x22	lcdRelay		A6	LCD		
0x22	lcdRelay		A7	LCD		
0x22	lcdRelay	signalRelay	B0	Relay Signal	O	Eingang 1 & 2 am Relais
0x22	lcdRelay	weiche1Relay	B1	Relay Weiche 1	O	Eingang 3 & 4 am Relais
0x22	lcdRelay	weiche2Relay	B2	Relay Weiche 2	O	Eingang 5 & 6 am Relais
0x22	lcdRelay	weiche3Relay	B3	Relay Weiche 3	O	Eingang 7 & 8 am Relais
0x22	lcdRelay	sensorW2L	B4	Magnet Sensor W2L	I	
0x22	lcdRelay	sensorW2R	B5	Magnet Sensor W2R	I	
0x22	lcdRelay	---	B6	---	---	
0x22	lcdRelay	---	B7	---	---	

Anschlussplan

[illegible]