



A

B

C

D

A

B

C

D

Temp sensor L335 Positive to pin 1, Negative to pin3. Adj pin 2 not used.  
X1 Pin Outs  
Tank1 Pin 2-15 Ch4 20  
Tank2 Pin 3-13 Ch1 21  
Tank3 Pin 6-11 Ch2 22  
Tank4 Pin 8-9 Ch3 23  
Temp1 Pin 10-7 Ch4 24  
Temp2 Pin 12-5 Ch5 25  
Temp3 Pin 14-3 Ch6 26  
Temp4 Pin 16-1 Ch7 27  
Note: Socket change from Wago to CIKI KEFA from JLCPCB

Digital Inputs not Isolated  
1 = 5 GPIO 6 Hi  
2 = 4 GPIO 6 Hi  
3 = 3 GPIO 13 Hi was low  
4 = 2 GPIO 18 Hi was low  
5 = 1 GPIO 28 Hi was low  
X2 Pin Outs  
D1 5 Pins 1-2  
D4 4 Pins 3-4  
D3 3 Pins 5-6  
D2 2 Pins 7-8  
D1 1 Pins 9-10  
Dry contacts only pull down inputs, voltage range 3.3v use ext opto coupler if required for isolation. There is ESD protection on the inputs

TVS Diode (Unidirectional/Diode)  
TVS D2 TSPMAGL60A (6v protection diode)  
D1 TSPMAGL60A (60Voh protection diode)  
Foot print SODFL462X110N

Relay Output Notes:  
# Relay 1 Pin 40 / GPIO 21  
# Relay 2 Pin 11 / GPIO 17  
# Relay 3 Pin 13 / GPIO 27  
# Relay 4 Pin 15 / GPIO 22  
# Relay 5 Pin 16 / GPIO 23  
# Relay 6 Pin 18 / GPIO 24  
21 out relay\_1  
17 out relay\_2  
27 out relay\_3  
22 out relay\_4  
16 out relay\_5  
18 out relay\_6  
HF41F-05ZS pinout info  
1-2 Coil  
3 N/C  
4 Com  
5 N/C  
Relay ratings: SPDT 6A 30vdc, 6A 230vac



# BOARD STACK REPORT