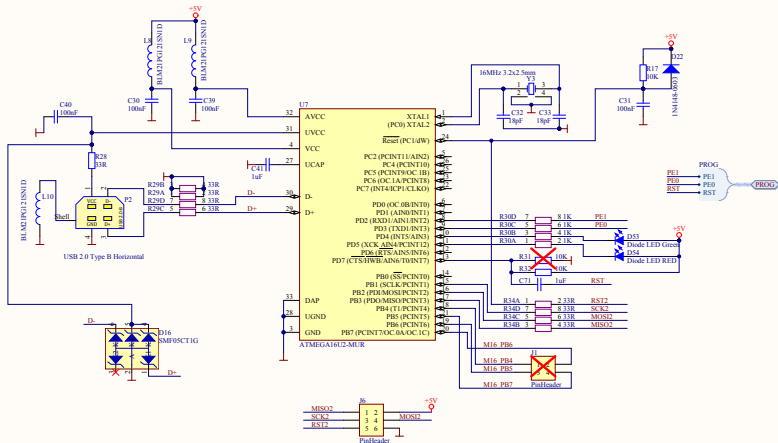
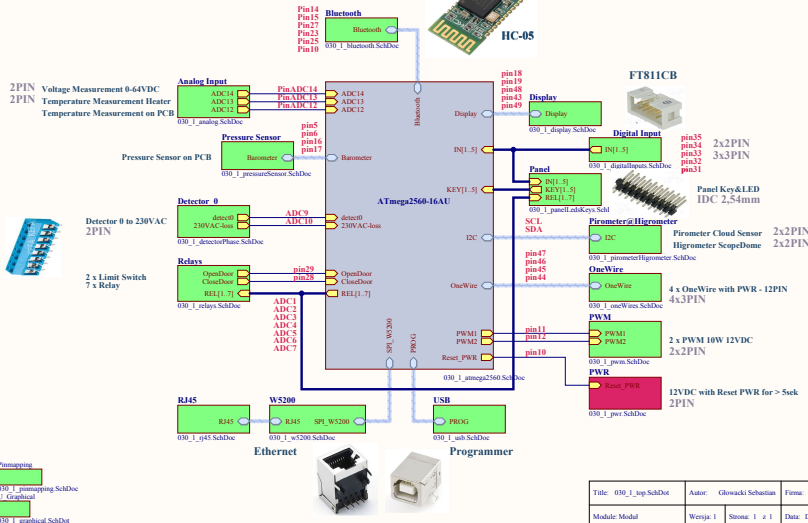
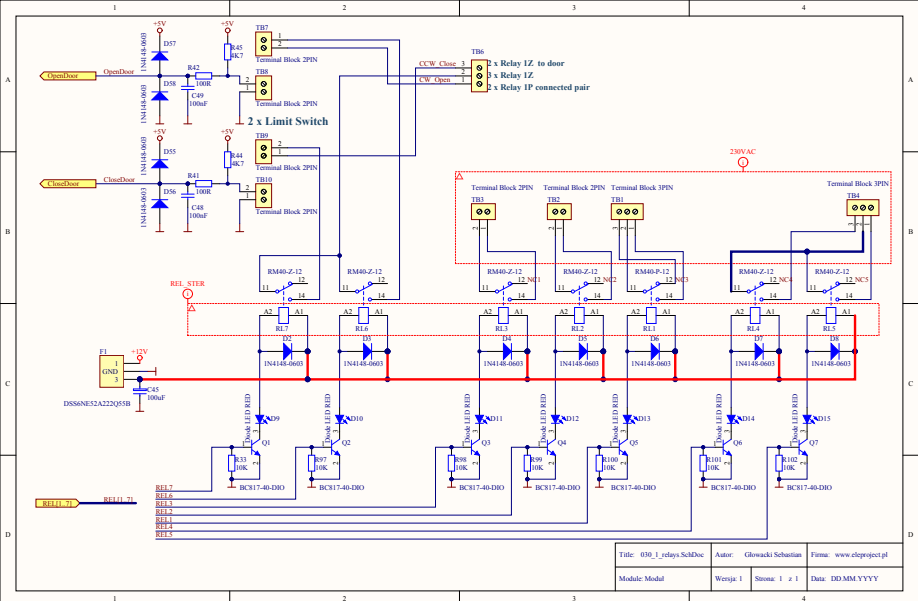




Title: 030_1_ush SchDoc	Author: Glowacki Sebastian	Firma: www.eleproject.pl
Module: Modul	Wersja: I	Strona: 1 z 1
	Date: DD.MM.YYYY	

PinXX - Pin Arduino





History changing:

28.06.2017 - The signal PWR_RST was connected to pin PH7 (Atmega2560)

It was added connection BT_Mode to pin27 Arduino

It was added connection BT_Pair to pin10 Arduino

It was added connection BT_RST to pin25 Arduino

It was connected signal Power Down W5200 to pin9 Arduino

It was connected signal Reset W5200 to pin8 Arduino

It was connected signal uINT W5200 to pin7 Arduino

It was changed connection Red to pin26 Arduino

It was changed connection Green to pin24 Arduino

It was changed connection Blue to pin22 Arduino

24.07.2017 - The signal IN5 was connected to pin2 Arduino (PE4 in Atmega2560)

28.07.2017 - The describing IN1 to IN4 with pins Atmega were corrected

Free Pin Arduino	PinAtmega2560 Name	PIN
2	PE4	6
3	PE5	7
4	PG5	1
13	PB7	26
30	PC7	60
38	PD7	50
39	PG2	70
42	PL7	42
A0	PF0	97
A8	PK0	89
A11	PK3	86



Fiducial



Fiducial



Fiducial



Stuck_up_layer



030_1_02



Sign on PCB



Sign on PCB

Title: 030_1_graphicalSchDoc

Autor: Glowacki Sebastian

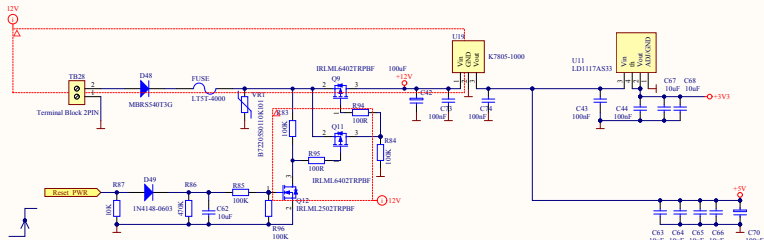
Firma: www.eleproject.pl

Module: Modul

Wersja: 1

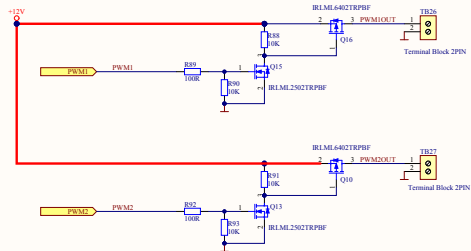
Strona: 1 z 1

Data: DD.MM.YYYY

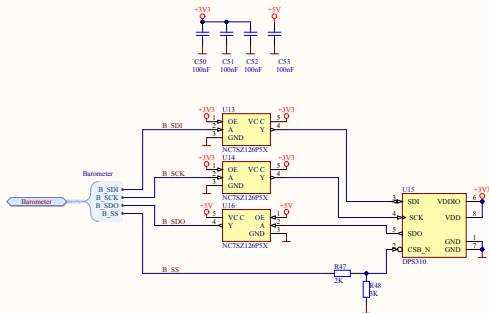


Reset PWR for 500ms
Signal Reset active High.
Pulse width should be more than 10ms

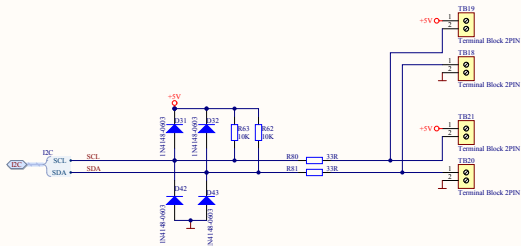
Title: 030_1_pwr SchDoc	Author: Glowacki Sebastian	Firma: www.eleproject.pl
Module: Modul	Wersja: 1	Strona: 1 z 1
	Date: DD.MM.YYYY	



Title: 030_1_pwm.SchDoc	Autor: Glowacki Sebastian	Firma: www.eleproject.pl
Module: Modul	Wersja: 1	Strona: 1 z 1
Data: DD.MM.YYYY		



Title: 030_I_pressureSensor.SchDoc	Author: Glowacki Sebastian	Firma: www.eleproject.pl
Module: Modul	Wersja: 1	Strona: 1 z 1
Data: DD.MM.YYYY		



Pirometer

Higrrometer

Title: 030_I_pirometerHigrrometer Sebastian DoGlowacki

Firma: www.eleproject.pl

Module: Modul

Wersja: 1

Strona: 1 z 1

Data: DD.MM.YYYY

	Schematic	Pin Arduino	PinAtmega2560
A	Bluetooth	BT_RX 14	PD1(TXD3)
		BT_TX 15	PJ0(RXD3)
		BT_Mode 27	PA5
		BT_STATE 23	PA1
		BT_RST 25	PA3
		BT_PAIR 10	PB4
	USB	PE1 0	PE0
		PE0 1	PE1
	Ethernet	MISO 50	PB3
		MOSI 51	PB2
		SCLK 52	PB1
		nSCS 53	PB0
		RST_W5200 8	PH5
		PWDN 9	PH6
B	I2C	nINT 7	PH4
		SCL 21	PD0
		SDA 20	PD1
	AnalogInput	ADC12 A12	PK4
		ADC13 A13	PK5
		ADC14 A14	PK6
	PWM_OUT	PWM1 12	PB6
		PWM2 11	PB5
	Relay	REL5 A1	PF1
		REL4 A2	PF2
		REL3 A3	PF3
		REL2 A4	PF4
		REL1 A5	PF5
		REL7 A6	PF6
C	Limit switch	REL6 A7	PF7
		CloseDoor 28	PA7
		OpenDoor 29	PA6
	Detector 230VAC	230loss A10	PK1
		detect0 A9	PK2
	One Wire	OW1 47	PL2
		OW2 46	PL3
		OW3 45	PL4
		OW4 44	PL5
D	Digital input	IN1 35	PC6
		IN2 34	PC5
		IN3 33	PC4
		IN4 32	PC3
		IN5 2	PE4
	Button	KEY1 41	PC1
		KEY2 40	PC0
		KEY3 37	PG1
		KEY4 36	PG0
		KEY5 38	PD7
	Display	D_MISO 19	PD2
		D_MOSI 18	PD3
		D_SCK not Arduino pin	PD5
		D_CS not Arduino pin	PD4
		D_INT 48	PL1
		D_PD 43	PL6
		D_AUDIO 49	PL0
	Reset Power	PWR_RST not Arduino pin	PH7

Function

Mode BT

KEY BT_PAIR

Reset W5200

Power Down W5200

nINT W5200

Thermistor 10K on PCB

Temperature

Voltage 0-64VDC

pwm 12VDC 10W

OpenDoor

Close Door

Schematic	Pin Arduino	PinAtmega2560	Function
Pressure Sensor	B_SDI 17	PH0	
	B_SDO 16	PH1	
	B_SCK not Arduino pin	PH2	or
	B_SS 5	PE4	
		PH3 6	
LEDs	RED 26	PA4	Red
	GREEN 24	PA2	Green
	BLUE 22	PA0	Blue

Title: 030_1_pinmapping_Sch

Autor: Glowacki Sebastian

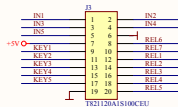
Firma: www.eleproject.pl

Module: Modul

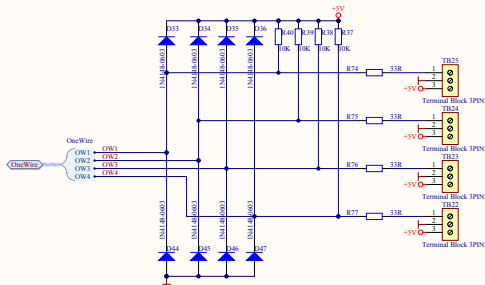
Wersja: 1

Strona: 1 z 1

Data: DD.MM.YYYY



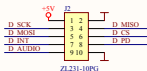
Title: 030_1_panele.edaKeys.Sch		Author: Glowacki Sebastian	Firma: www.eleproject.pl
Module: Modul	Wersja: 1	Strona: 1 z 1	Data: DD.MM.YYYY



Title: 030_1_oneWires.SchDoc	Autor: Glowacki Sebastian	Firma: www.eleproject.pl
Module: Modul	Wersja: 1	Strona: 1 z 1
Data: DD.MM.YYYY		

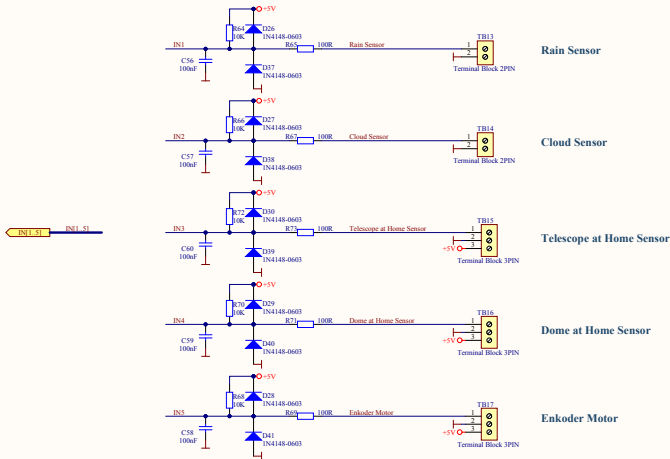
Arduino UNO

Cannot open file
D:\elektronika\projekty_firmware\030_Scope
Done\FchProjects\Display_connected_Ardui
no.jpg



Ardruido UNO	Atmega328P-PU	Display
D3	INT1 PD3	INT
D4	T0 PD4	PD
D9	OC1 PB1	CS
D11	MOSI PB3	MOSI
D12	MISO PB4	MISO
D13	SCK PB5	SCK

Title: 030_I_display SchDoc	Autor: Glowacki Sebastian	Firma: www.eleproject.pl
Module: Modul	Wersja: 1	Strona: 1 z 1
	Date: DD.MM.YYYY	



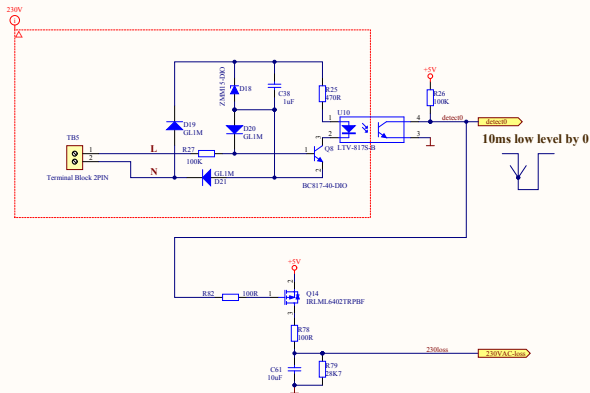
Title: 030_1_digitalInputs.SchDoc Author: Glowacki Sebastian Firma: www.eleproject.pl

Module: Modul

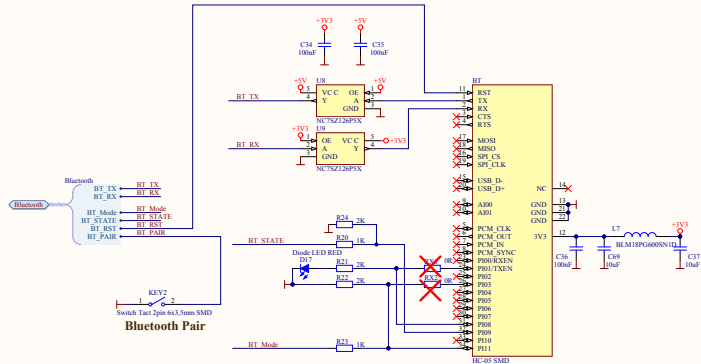
Wersja: 1

Strona: 1 z 1

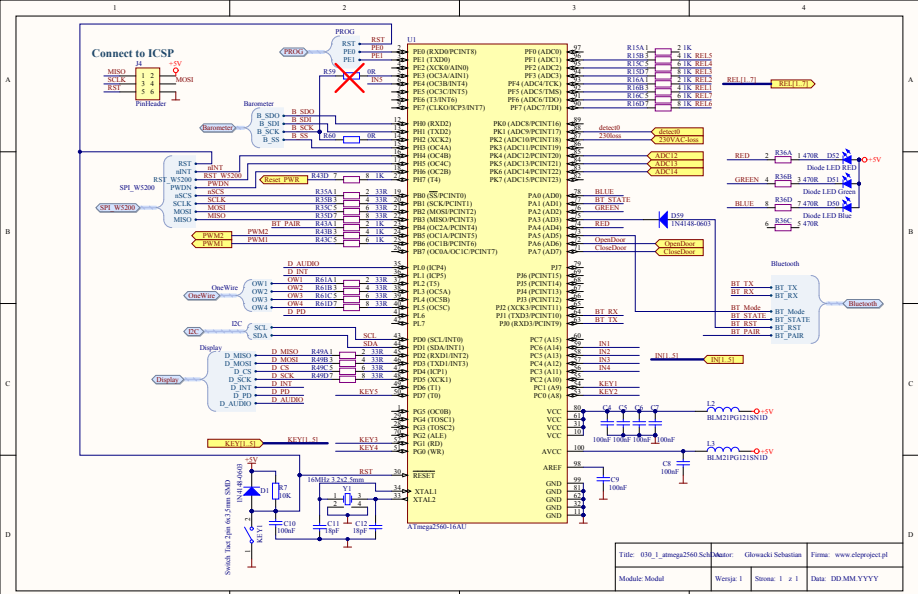
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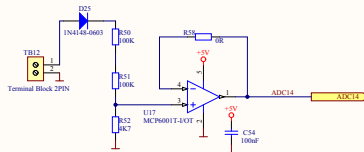
Title: 030_1_detectorPhase	Author: Glowacki Sebastian	Firma: www.eleproject.pl
Module: Modul	Wersja: 1	Strona: 1 z 1
	Date: DD.MM.YYYY	



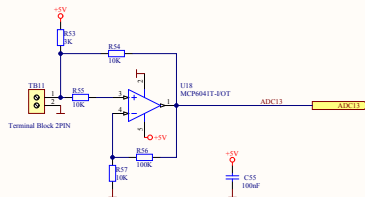
Title: 030_1_bluetooth.SchDoc	Autor: Glowacki Sebastian	Firma: www.eleproject.pl
Module: Modul	Wersja: 1	Strona: 1 z 1
	Date: DD.MM.YYYY	



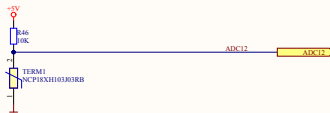
Voltage 0-64VDC



Temperature PT100



Temperature on PCB



Title: 030_I_analog_SchDoc

Autor: Glowacki Sebastian

Firma: www.eleproject.pl

Module: Modul

Wersja: 1

Strona: 1 z 1

Data: DD.MM.YYYY