K1
WAGO 231-332
+12V
D1
S1M DO-214AC
FSR2
78L05-SOT89
U+(IN) VREG(OUT)
+5V
C6
100µF-25V
C3
330nF-R
C7
100nF-R
C14
100µF-25V
R11
1K-R
R5
1K-R
LED5
yellow 3mm
R8
1K-R
LED7
blue 3mm
LED4
red 3mm
R6
1K-R
LED6
green 3mm
IC4
IC ULN2003A-SO16-S
DIODES
GND
R1
1K-R
REL1-A
Omron G2R
LED1
blue 3mm
R2
1K-R
REL2-A
Omron G6D
LED2
blue 3mm
R3
1K-R
REL3-A
Omron G6D
LED3
blue 3mm
REL3-B
Omron G6D
K5
Wago 733-332
PUMPE
1A
K2
WAGO 231-332
REL1-B
Omron G2R
REL1-C
Omron G2R
K3
WAGO 231-332
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LED BLUE
LED RED
LED YELLOW
LED GREEN
REL SUPPLY
REL LIGHT
REL MOTOR
XTAL1
XTAL2
X1
16Mhz
C4
22pF-R
C5
22pF-R
AD MOTOR CURRENT
IC3-C
LM358
R13
100K-R
C11
1nF-R
R12
10K-R
IC3-B
LM358
R4
0.1 2W 1%
SHUNT
+5V
AVCC
R29
10K-R
R30
10K-R
K8
Wago 733-335
AD WATER TEMPERATUR
AD WATER LIMIT
C16
1nF-R
C17
1nF-R
L1
10uH-15mA 0805
IC1
ATMega8 DIP28
RESET
REL MOTOR
REL LIGHT
REL SUPPLY
LOCK
KEY
XTAL1
XTAL2
LED YELLOW
LED RED
LED GREEN
LED BLUE
PC6 (RESET)
PD0 (RXD)
PD1 (TXD)
PD2 (INT0)
PD3 (INT1/OC2B)
PD4 (XCK/T0)
VCC
GND
PB6 (XTAL1/TOSC1)
PB7 (XTAL2/TOSC2)
PD5 (T1/OC0B)
PD6 (AIN0/OC0A)
PD7 (AIN1)
PB0 (ICP1)
(SCL/ADC5) PC5
(SDA/ADC4) PC4
(ADC3) PC3
(ADC2) PC2
(ADC1) PC1
(ADC0) PC0
GND
AREF
AVCC
(SCK) PB5
(MISO) PB4
(OC2A/MOSI) PB3
(OC1B/SS) PB2
(OC1A) PB1
AD MOTOR CURRENT
AD WATER TEMPERATUR
AD WATER LIMIT
SCK
MISO
MOSI
C2
100nF-R
C22
100nF-R
REL2-B
Omron G6D
K4
Wago 733-334
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PWM OUTPUT
LOCK
RESET
GND
R14
68-R
R9
68-R
S1
TAKT
S2
TAKT
C12
1nF-R
C13
1nF-R
K10
PF06
R18
470-R
R19
470-R
R20
470-R
R10
470-B
R7
10K-R
C1
100nF-R
C15
100nF-R
IC3-A
LM358
VCC
GND
C8
100nF-R
B1
Bohrung 4.2mm 165mil
B2
Bohrung 4.2mm 165mil
B3
Bohrung 4.2mm 165mil
B4
Bohrung 4.2mm 165mil

Blatt:	
Datum:	Name:
20.07.2017	GM

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Schaltplan

k.box
Brunnen Steuerung

Version 01

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Brunnen Steuerung V01