Open Access Control v2.10

Design by Arclight@23.org

R12 4.7K   R22 4.7K   +5V
+5V
GND
IC1
DS1307
SDA X1
SCL SQW/OUT X2
GND VBAT VCC
32Khz
C4
+5V
C2 0.1uF
GND
BAT1

GND
IC5
ULN2003
OUTPUT1
OUTPUT2
OUTPUT3
OUTPUT4
+12V

GND
+5V
U1
ARDUINO_SHIELDLABEL
A0 A1 A2 A3 A4 A5
RX TX
D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2

R27 4.7K   PS-2501   GND
OK3A   1N4004   R23   R24
SENS1-2
SENS1-1
+5V
R28 4.7K   PS-2501
OK3B   1N4004   R25
+5V
A2
A3

R33 4.7K   PS-2501   GND
OK4A   1N4004   R18
SENS2-2
SENS2-1
+5V
R34 4.7K   PS-2501
OK4B   1N4004   R32
+5V
A0
A1

R9 4.7K   PS-2501   GND
OK2A   1N4004   R3 2.2K
READER2-2
+5V
R11 4.7K   PS-2501
OK2B   1N4004   R6 2.2K
READER2-1
+5V
D4
D5

R7 4.7K   PS-2501   GND
OK1A   1N4004   R4 2.2K
READER1-2
+5V
R5 4.7K   PS-2501
OK1B   1N4004   R1 2.2K
READER1-1
+5V
D2
D3

K1 GL5E-12V   A2 A1   +12V
R16 2.2K   LED3 RED
OUTPUT4

K2 GL5E-12V   A2 A1   +12V
R17 2.2K   LED1 RED
OUTPUT3

K0 GL5E-12V   A2 A1   +12V
R20 2.2K   LED4 RED
OUTPUT2

K3 GL5E-12V   A2 A1   +12V
R15 2.2K   LED2 RED
OUTPUT1

K0
14 12 11
RELAY0-3
RELAY0-2
RELAY0-1

K1
14 12 11
RELAY1-3
RELAY1-2
RELAY1-1

K2
14 12 11
RELAY2-3
RELAY2-2
RELAY2-1

K3
14 12 11
RELAY3-3
RELAY3-2
RELAY3-1

F7 0.5A   +5V
GND
5VOUT-1
5VOUT-2

F6 2A   +12V
GND
12VOUTA-1
12VOUTA-2

F1 2A   +12V
GND
12VOUTB-1
12VOUTB-2

12VIN-1
12VIN-2
F4 5A
R2 S10K30
5A D13   D6
D2 15KE18A
C1 100uF
+12V
R51
LM2575
IN
EN
GND
FB
OUT
C53
D1 1N5819
US2 330uH
C3 330uF
+5V
R8 330   LED5 PWR
D3 15KE6.8A
GND