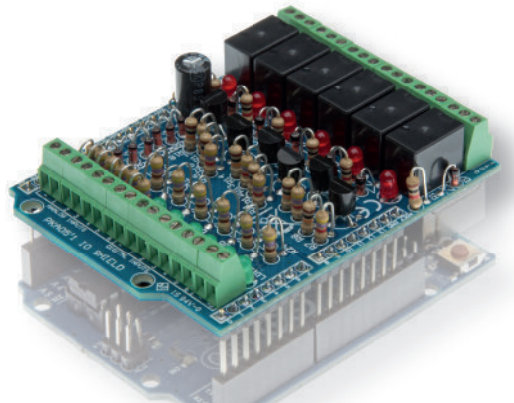
VMA05

MANUAL HVMA05*1

IN/OUT shield for Arduino®

velleman® MODULES



General purpose INPUT - OUTPUT shield for Arduino®

Features

- For use with Arduino Due, Arduino Uno, Arduino Mega
- 6 analog inputs
- 6 digital input
- 6 relay contact outputs: 0.5A max 30V (*)
- Indicator leds for relay outputs and digital inputs

Specifications

- Analog inputs: 0..+5VDC
- Digital inputs: dry contact or open collector
- Relays: 12V
- Relay contacts: NO/NC 24VDC/1A max.
- Dimensions: 68 x 53mm / 2.67 x 2.08”

Made for ARDUINO

(*) It is required to power the Arduino UNO (not supplied) with a 12V DC 500mA power supply (not supplied).
This shield will not work with the Arduino Yún. Use the KA08 or VMA08 with the Arduino Yún.

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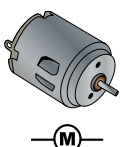
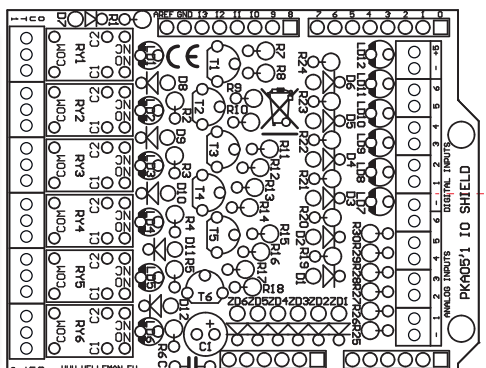
1 OUTPUT
MAX. 24VDC / 1A

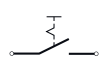


6 RELAY OUTPUTS (Max 1A / 30V)



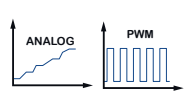
2 DIGITAL INPUTS

6 DIGITAL INPUTS

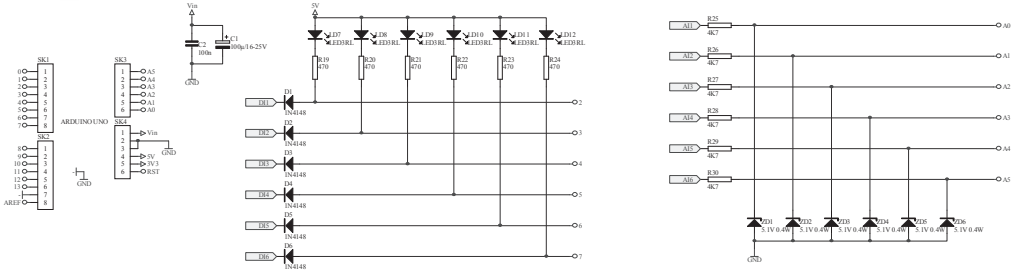


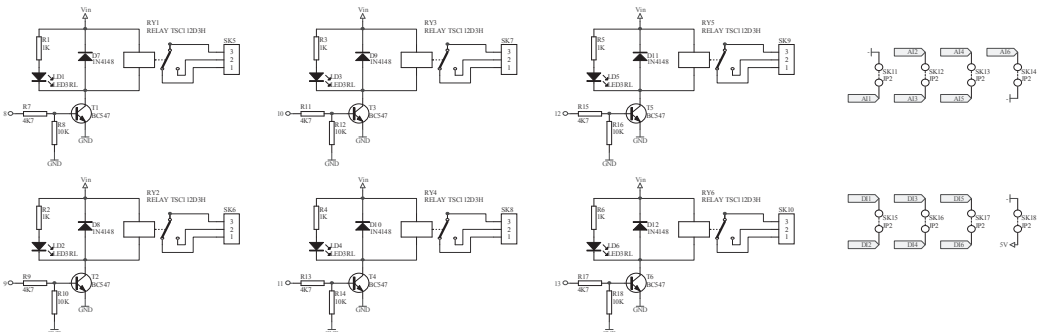
3 ANALOG INPUTS 0 ... 5V

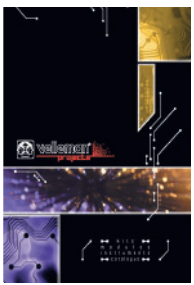
6 ANALOG INPUTS



DOWNLOAD SAMPLE CODE FROM KA05 PAGE ON WWW.VELLEMAN.BE


SK1
SK2
SK3
SK4
ARDUINO UNO
AREF
GND
Vin
5V
3V3
RST
A0
A1
A2
A3
A4
A5
C1
100µ/16-25V
R2
100k
D7 LED3RL
D8 LED3RL
D9 LED3RL
D10 LED3RL
D11 LED3RL
D12 LED3RL
R19 470
R20 470
R21 470
R22 470
R23 470
R24 470
D1 1N4148
D2 1N4148
D3 1N4148
D4 1N4148
D5 1N4148
D6 1N4148
R25 4K7
R26 4K7
R27 4K7
R28 4K7
R29 4K7
R30 4K7
ZD1 5.1V 0.4W
ZD2 5.1V 0.4W
ZD3 5.1V 0.4W
ZD4 5.1V 0.4W
ZD5 5.1V 0.4W
ZD6 5.1V 0.4W


RY1 RELAY TSC1 12D3H
RY2 RELAY TSC1 12D3H
RY3 RELAY TSC1 12D3H
RY4 RELAY TSC1 12D3H
RY5 RELAY TSC1 12D3H
RY6 RELAY TSC1 12D3H
SK5
SK6
SK7
SK8
SK9
SK10
SK11 JP2
SK12 JP2
SK13 JP2
SK14 JP2
SK15 JP2
SK16 JP2
SK17 JP2
SK18 JP2
R1 1K
R2 1K
R3 1K
R4 1K
R5 1K
R6 1K
R7 4K7
R8 10K
R9 4K7
R10 10K
R11 4K7
R12 10K
R13 4K7
R14 10K
R15 4K7
R16 10K
R17 4K7
R18 10K
D7 1N4148
D8 1N4148
D9 1N4148
D10 1N4148
D11 1N4148
D12 1N4148
D1 LED3RL
D2 LED3RL
D3 LED3RL
D4 LED3RL
D5 LED3RL
D6 LED3RL
T1 BC547
T2 BC547
T3 BC547
T4 BC547
T5 BC547
T6 BC547
A12
A14
A16
A11
A13
A15
D1
D3
D5
D2
D4
D6
5V



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Velleman NV, Legen Heirweg 33 - 9890 Gavere.