

# VWRB DC OUTPUT MODULES

## DESCRIPTION

DC output modules are used for controlling or switching DC loads. Each module provides 4000 Vrms of optical isolation between the field devices and the control logic. Typical uses and applications for DC output modules include switching to the following loads:

- DC Relays\*
- DC Solenoids
- DC Lamps or Indicators
- DC Motor Starters
- Heaters
- High Speed Switching

**\*ATTENTION:** Please note if there is a protection diode inside the relay, then you should connect “+” of the relay to “+” of power supply, and “-“ of the relay to “OUT”of the module. Otherwise the output transistor of the relay might be broken down.

Modules Features are as follows:

NAME	LINE VOLTAGE AC	LOGIC VOLTAGE*	CHANNEL QUANTITY
VWRB1/DC*	12 – 40	5,9,12,24	1
VWRB2/DC*	12 – 40	5,9,12,24	2
VWRB3/DC*	12 – 40	5,9,12,24	3
VWRB4/DC*	12 – 40	5,9,12,24	4

\* - input logic voltage can be chosen by a customer from the list ‘Logic Voltage’ while making order

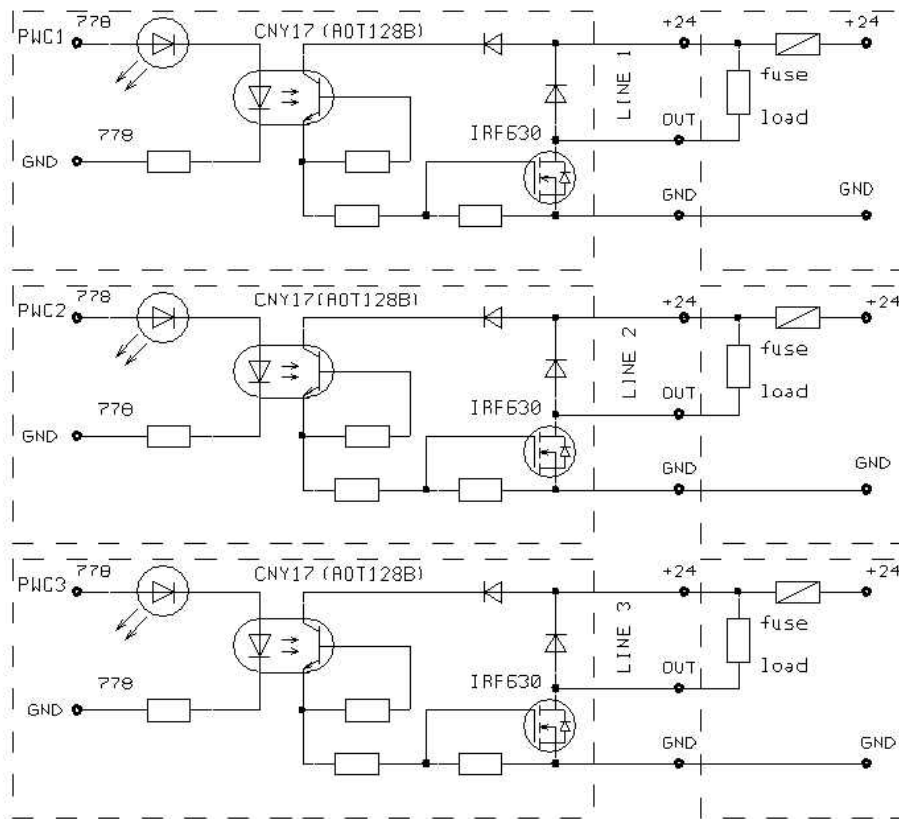
## SPECIFICATIONS

General/Applies to all models

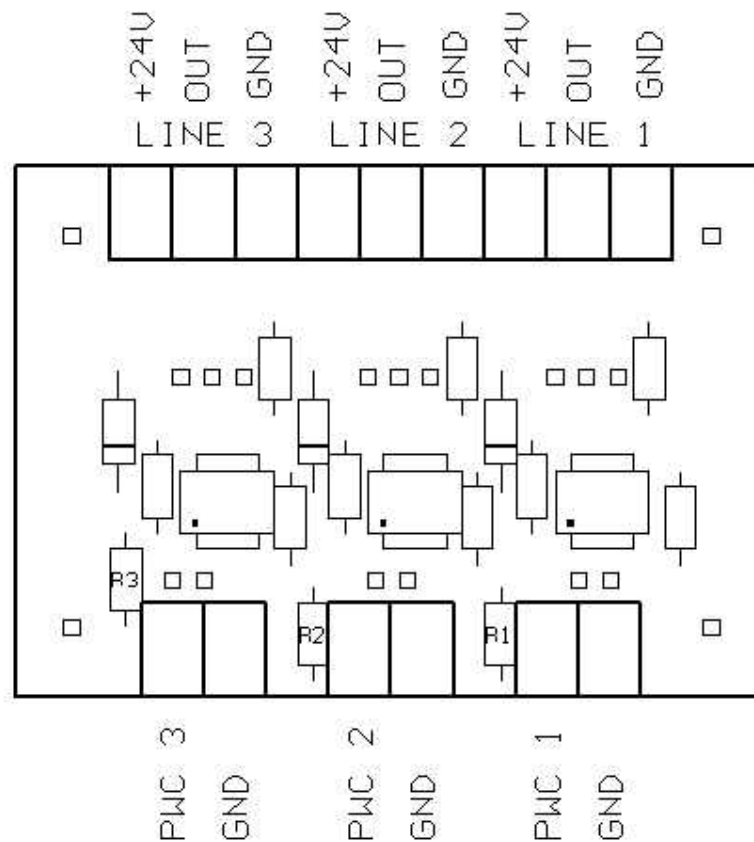
Operating Junction Temperature Range	-30 to +100 °C
One Cycle Surge	4 A**
Repetitive Peak Off-state Voltage	40 V
Isolation Input-to-Output	4000Vrms
Logic Input Current	10 mA
Turn-on Time	40ns
(DI/DT)on – Turn-on Current Slope	250 A/μs

\*\* There is a possibility to enlarge load current. Consult a specialist.  
For detailed information refer to data sheets of modules main components.

## VWRB3/DC MODULE



**ELECTRICAL SCHEME OF LOAD CONNECTION TO MODULE**



### ASSEMBLY DIAGRAM

R1, R2, R3 of 150 Om for input voltage 5V DC and R1, R2, R3 of 820 Om for 12V DC and R1, R2, R3 of 2.0 kOm for 24 V DC.