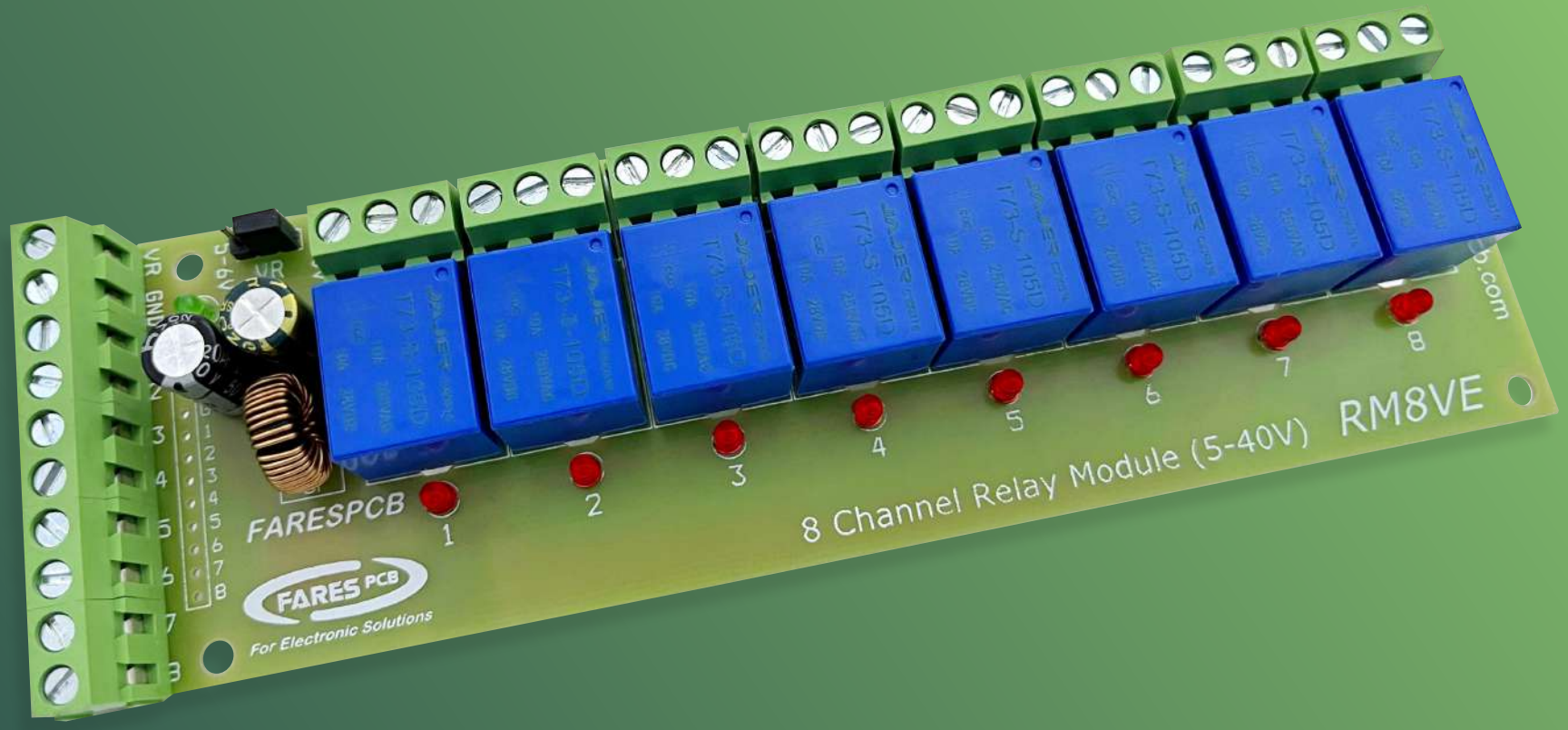
FARES PCB
For Electronic Solutions



8-Channel Relay Module (5-40V) RM8VE

General Description

The 8-Channel Relay Module is a versatile switching board designed to control a wide range of AC and DC loads. It operates with a wide supply voltage range from 5V to 40V, featuring an onboard switching regulator for stable performance. Each channel is equipped with a high-quality relay capable of handling loads up to 10A, and provides NC, NO, and COM screw terminals for flexible wiring options.

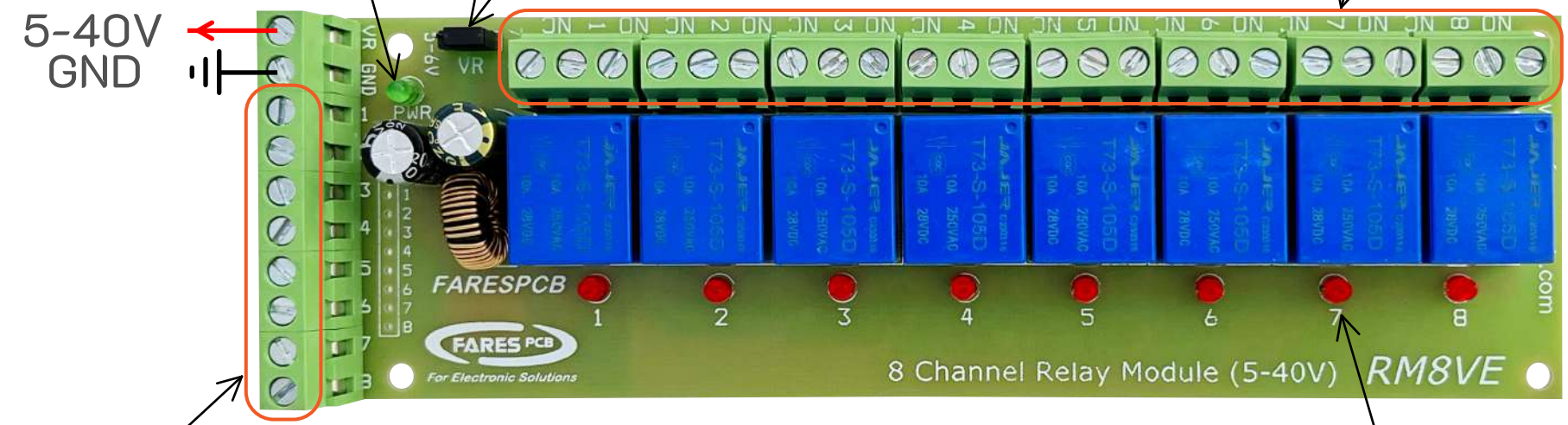
The module includes LED indicators for easy monitoring of relay states, and a 10-pin input header (8 control signals + 2 power pins) for straightforward interfacing with microcontrollers and other control systems. Built on the reliable ULN2803 driver.

With four mounting holes for secure installation, this module is ideal for applications such as home automation, smart projects, and prototyping.

Features

- 8-Channel relay module using T73 relays (rated 10A for resistive loads; recommended ≤5A for inductive loads).
- Wide input voltage range: 5V to 40V selectable via 3-pin jumper.
- 5–7V mode: Direct input to relays.
- 7–40V mode: Onboard LM2576 buck converter outputs stable 5V.
- Relay coil voltage: 5V for all channels.
- Compatible trigger signal range: 3V to 24V.
- Integrated ULN2803 driver IC with built-in flyback diodes for relay protection.
- Additional reverse polarity protection diode on power input.
- Each relay has LED indicator for status visualization.
- Output terminals: 3-pin screw connectors (NC, COM, NO) per relay.
- Input & power via 10-pin screw terminal (2 power pins + IN1 to IN8).
- High-quality PCB with white silkscreen legend for easy wiring identification.
- Four mounting holes (Ø 3.5 mm) for secure installation.

Relay Module Details



FARES PCB

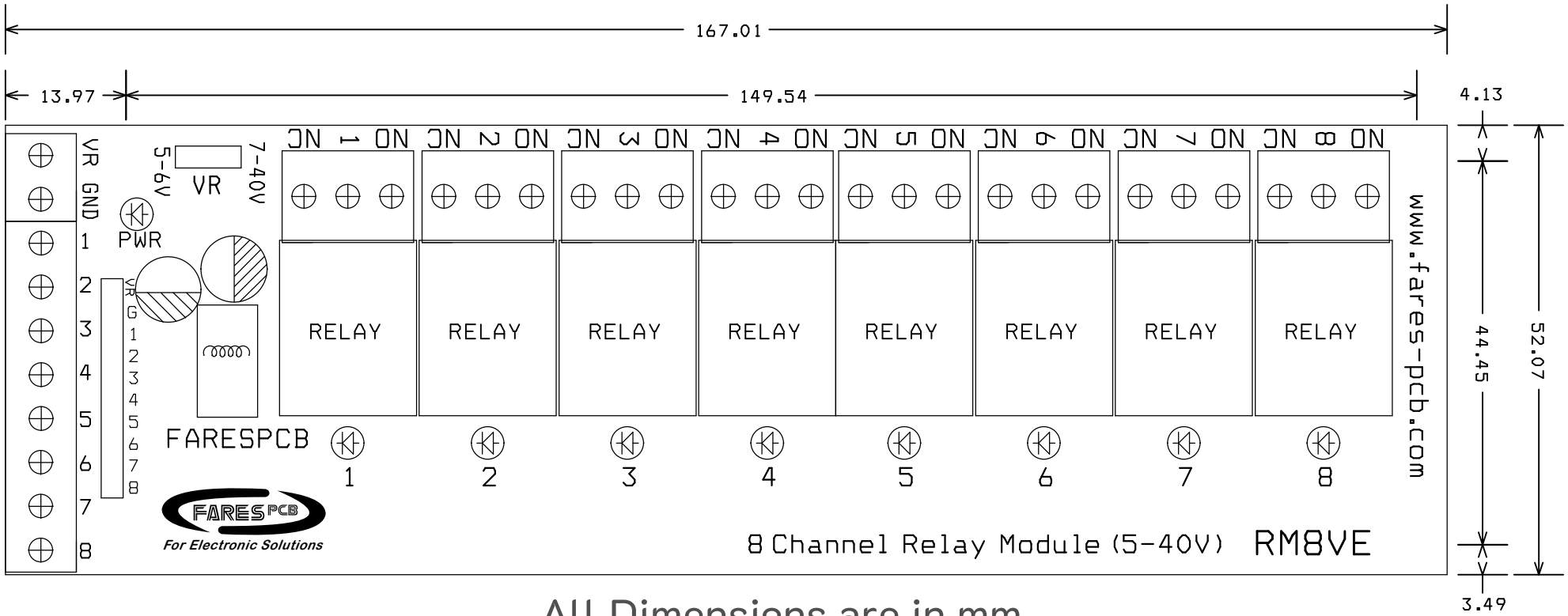
Power Supply Selection Jumper Setting:

(5-6V) Low Voltage Mode

(7-40V) Wide Voltage Mode

Set the jumper correctly before powering the module to avoid damage.

Mechanical Dimensions Diagram



All Dimensions are in mm

For our full range of products, see our website at **http://www.fares-pcb.com**
If you have any technical questions about our products,
e-mail us at **www.support@fares-pcb.com**

FARES PCB co. (Head office)
32 El-Falaky st, Bab El-Louq, Tahrir, Cairo, Egypt.
Tel: +202-27901841
Mob: +201022457902

FARES PCB Co reserves the right to make changes in circuit design, software and/or specifications at any time without prior notice. For the latest updated information, please visit our website at http://www.fares-pcb.com.

Information furnished by is believed to be accurate and reliable. However, **FARES PCB** assumes no responsibility arising from the use of the specifications described.

Distributor:
RAM Electronics
32 El Falaky St. Bab El Louk, Tahrir, Cairo, Egypt
Tel: +202-27960551
www.ram.com.eg
Sales@ram-electronics.com.

RAM® Electronics
INTEGRATED SOLUTIONS AT ONE PLACE

Copyright © 2025 by FARESPCB