



Fox Delta

Amateur Radio Projects & Kits

FD- MPSSC

Schematic & Parts list: PIC18F4520 Multi-Purpose Sensor System Relay Board

This project is developed for Amateur Radio Community by:

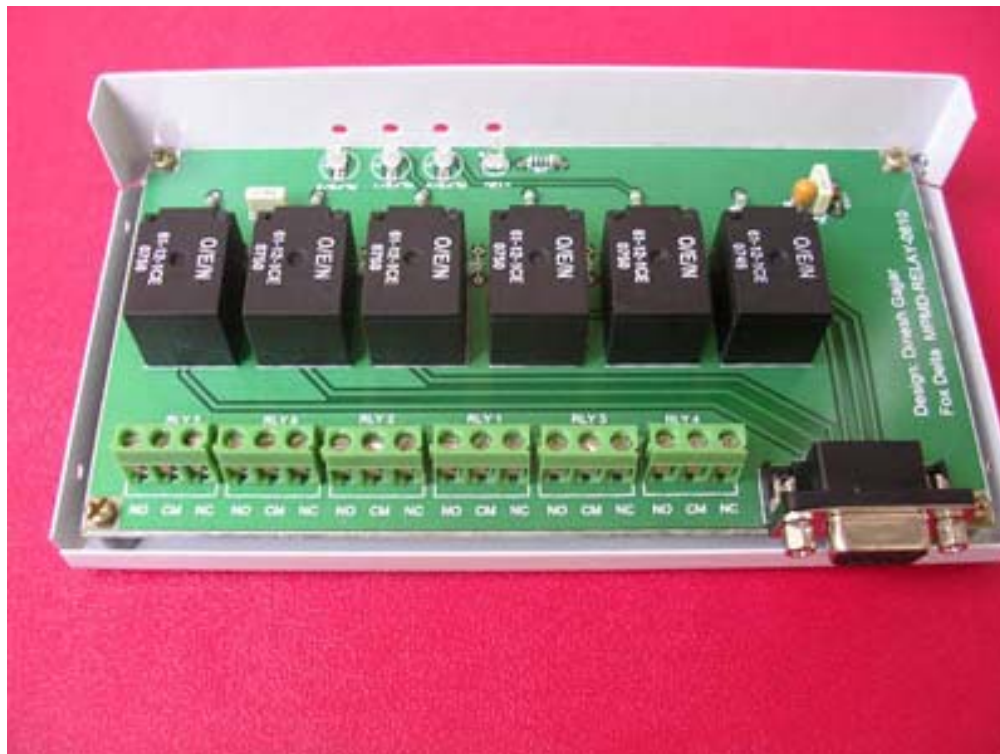
[Antonio Alfinito / I2TZK](#)

[Dinesh Gajjar / VU2FD](#)

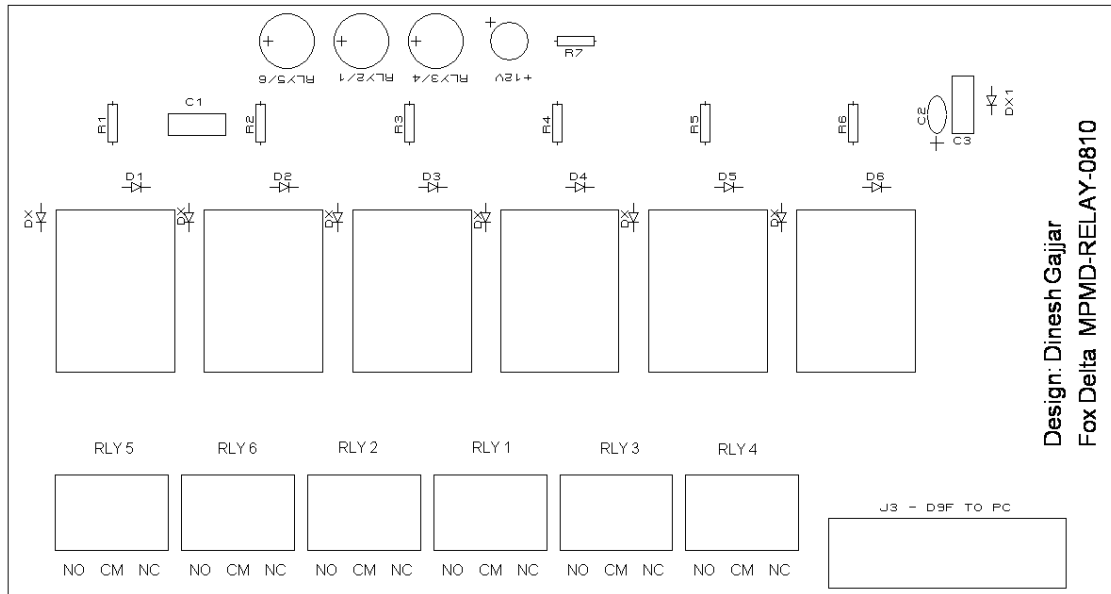
[Frank Dzuirda / K7SFN](#)

PIC18F4520 Multi-Purpose Sensor System Controller:

Optional 6 Relay Board with Free Case:



Relay Board Silk:



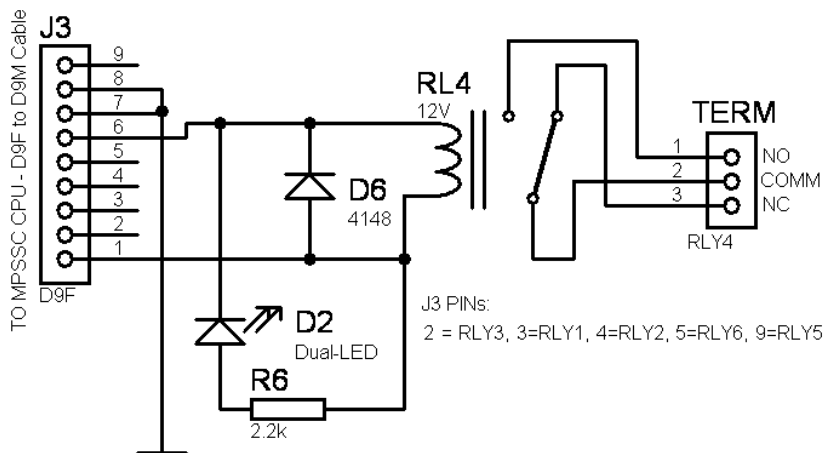
Relay board is available as an option. Not all kit builders require a relay to operate a heavy AC (or DC) Load. Board has 6 relays to support the 6 sensors that CPU can handle. Both NO & NC connections are available at terminal blocks.

Relays used are OEN-61 type rated at 220V AC/5A. There are 7 LEDs (3 Dual Color) giving indication of relay activation and availability of +12V from CPU. A D9 Male to D9F cable is supplied with Relay Board Kits for interconnection to CPU.

Relay Board Schematic:

Design & Project by:

Dinesh Gajjar/MU2FD, Antonio Alfinito/I2TZK & Frank Dziurda/K7SFN



In above schematic, only one relay channel is shown. There are 6 relays on this board. Relay Board get its power from CPU.

Relay Board Parts List:

Quantity	Part ID	Part Details
1	PCB	FD-RELAY 0810.
1	Case	Free with kits or assembled
1	J1	RJ45 R/A PCB Connector
1	D9F	D9F to D9F Cable
6	Relays	OEN61 Type
3	Dual LEDs	Relay Operation
1	LED	+12V Indication
6	Terminals	3 PIN Terminal Blocks
7	R1 to R7	2.2K Resistors
7	D1 to D6 and DX1	Relay and Polarity Protection
1	J3	D9F PCB Connector
2	C1, 3	0.1uf Poly
1	C2	10uf Electro or Tantalum

73s

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30th June 2010

For more details, please visit Project Page: <http://www.foxdelta.com>