

TP8

Interface Modules

***Opto-Isolated 4A / 8 channel positive
output transistor interface module***

TP8 Module key features

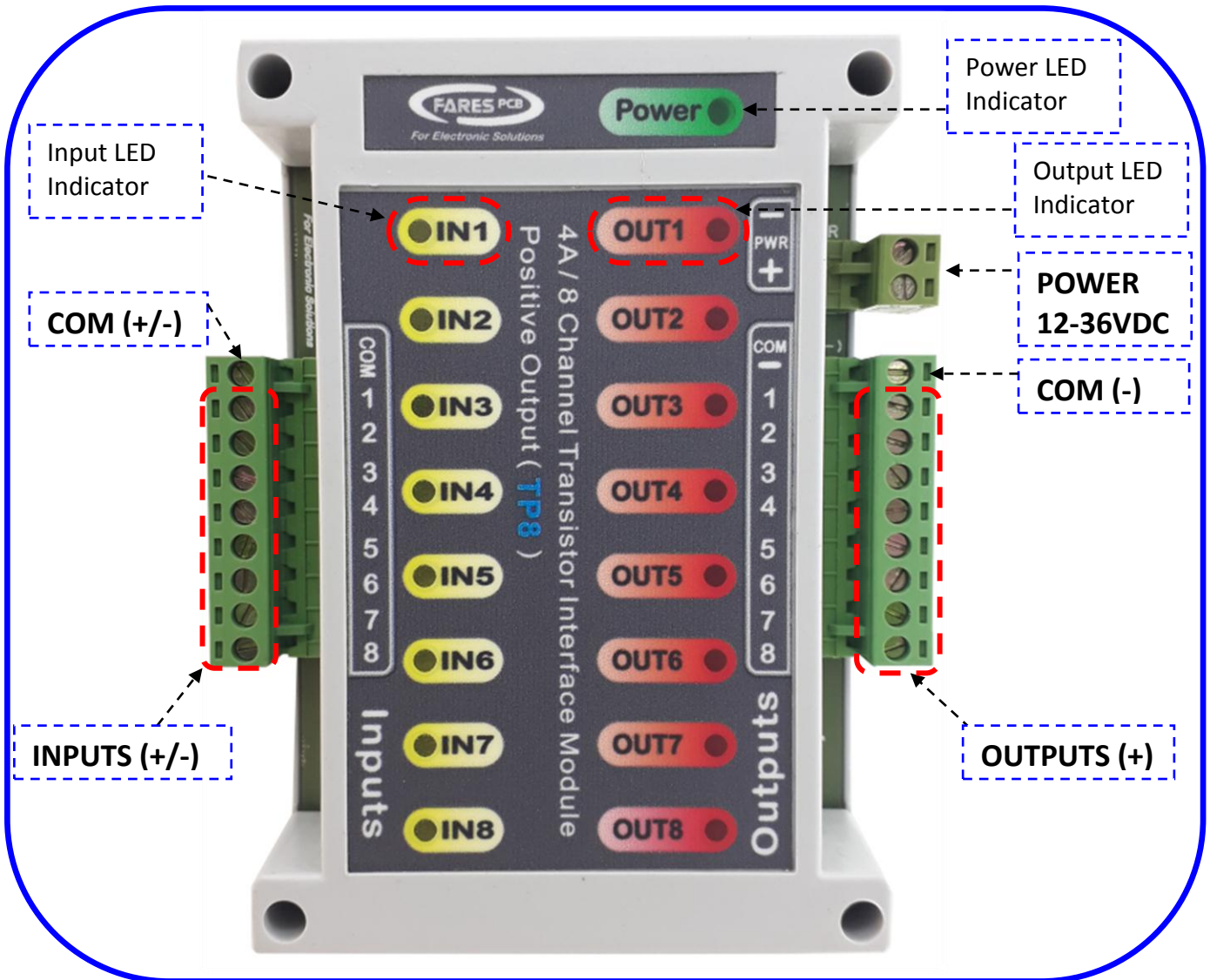
- Input power voltage 12-36 VDC.
- Output current +4A (Continuous) / +15A (Instantaneous).
- 8 output channels (MOSFET transistor).
- Opto-isolated outputs for safety.
- positive or negative input signal.
- Fuse protection for each output.
- Switching frequency 1000Hz.
- Green LED indicator for power input.
- Yellow LED indicator for each input.
- Red LED indicator for each output.
- Standard DIN rail mountable box.

TP8 Typical applications

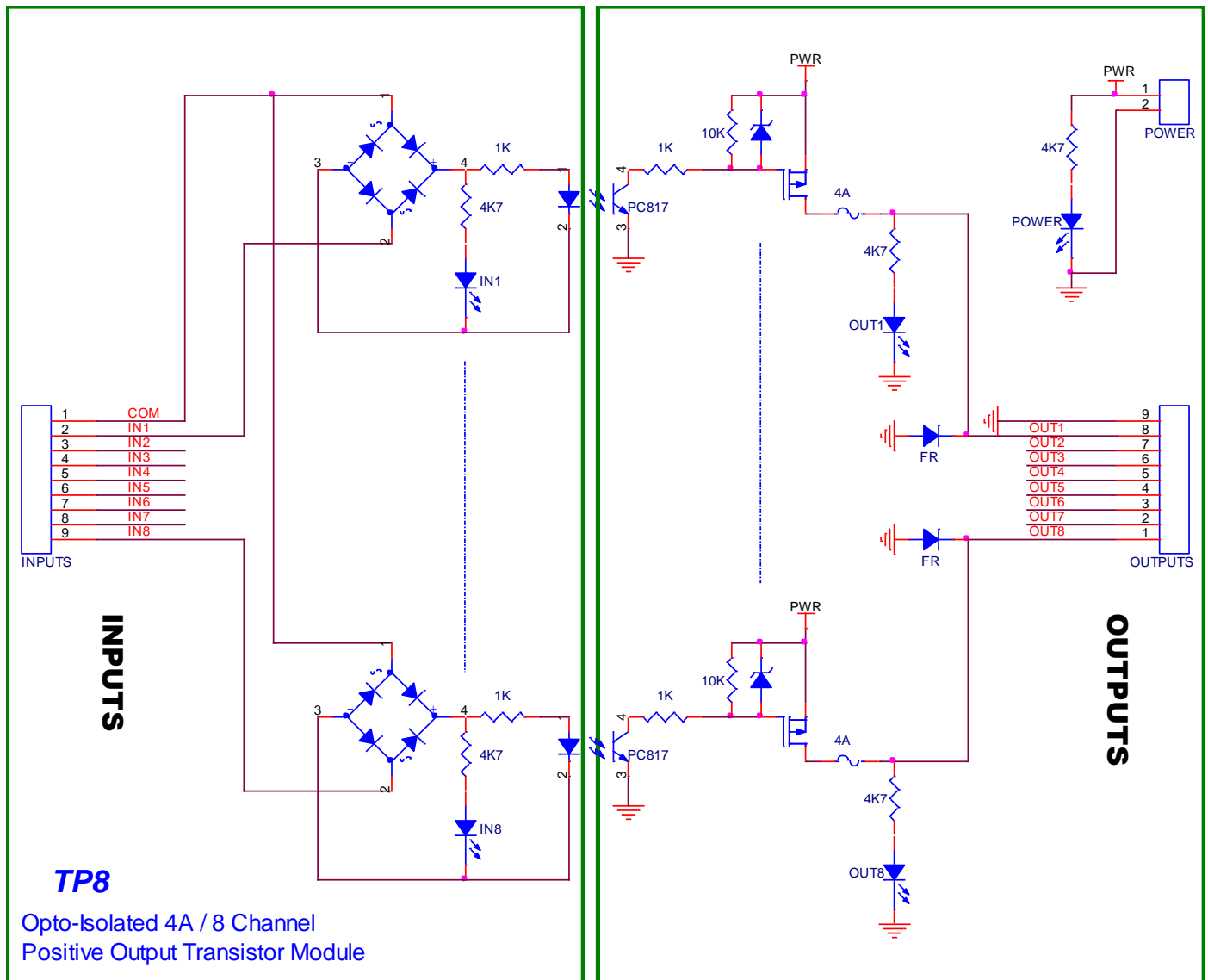
- PLC Control.
- Microcontroller applications.
- Electromagnetic valves.
- DC motor control.
- Home intelligent control systems.

Technical data

Parameter	Min	Typ	Max	Unit
Model	TP8			-
Output type	Positive (P-FET)			-
Channels	8			-
Input power (Vp)	12	24	36	V
Input signal voltage	5	24	33	V
Input signal current	3	10	34	mA
Output voltage	Vp-2	Vp		V
Output current (continuous)		4		A
Output current (Pulse)	10	15	20	A
Switching frequency			1000	Hz
Dimensions L X W X H	145 x 90 x 41			mm



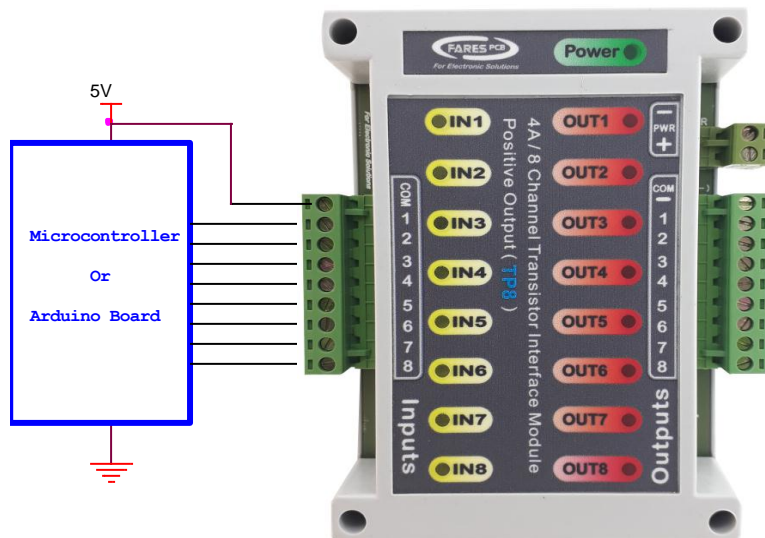
TP8 Module



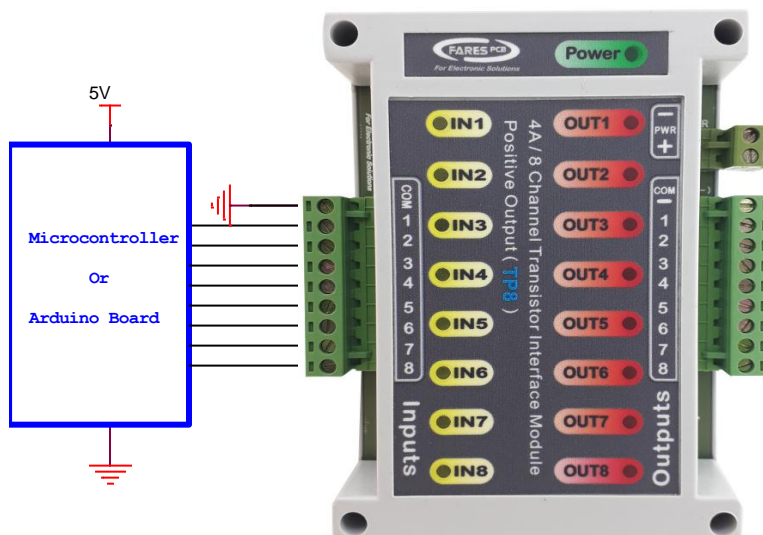
TP8 (schematic diagram)

TP8 Module is divided into two electrically isolated circuits. Input control circuit and output transistors circuit. Opto-isolators are used to isolate two circuits for safety requirements and eliminating ground loops.

Interfacing Microcontroller to TP8 Module

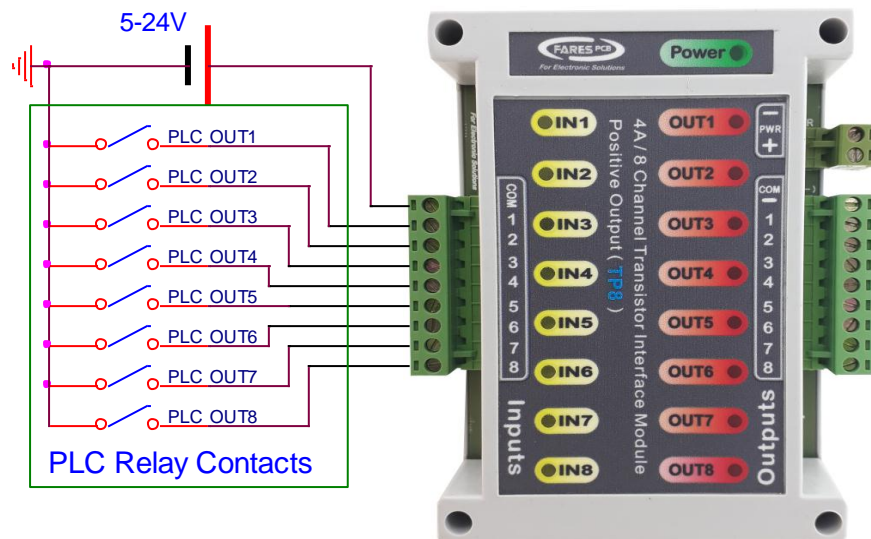


Interfacing microcontroller to TP8 module
(common + / Active low control signal)

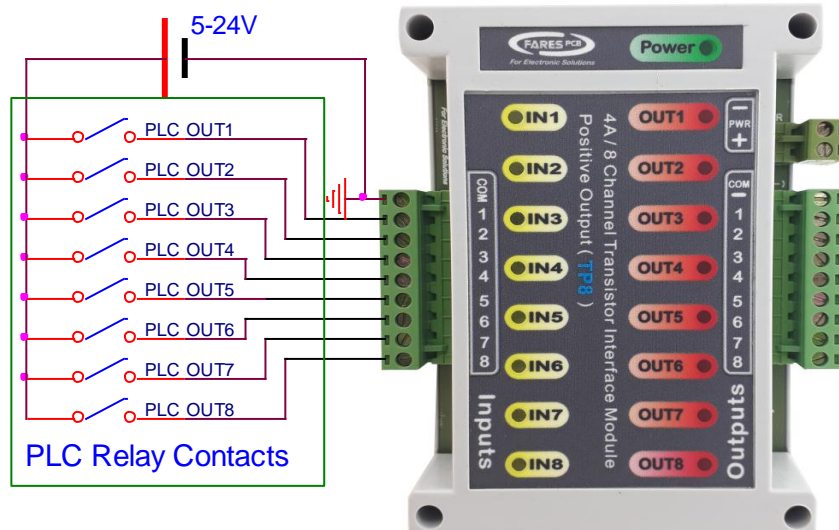


Interfacing microcontroller to TP8 module
(common - / Active high control signal)

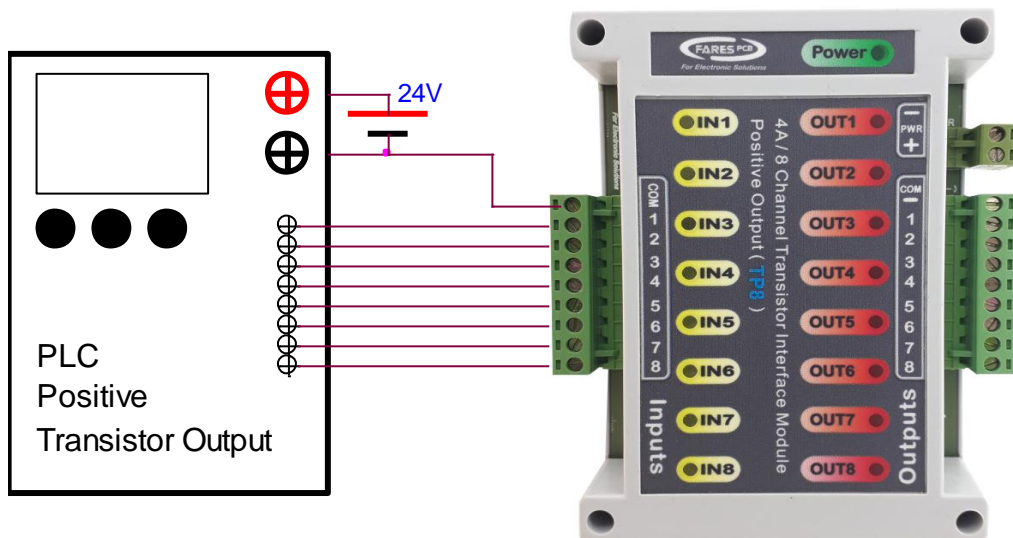
Interfacing PLC to TP8 Module



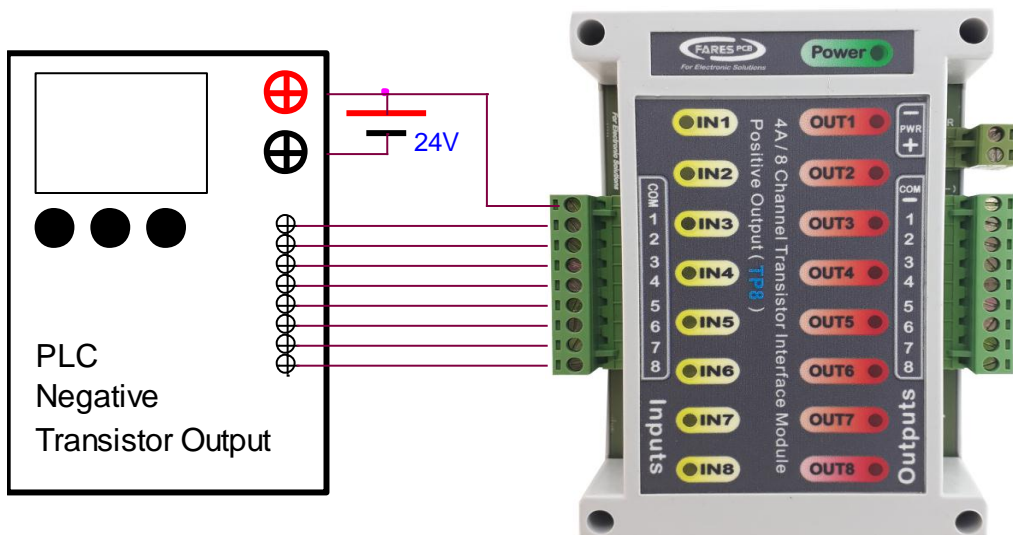
Interfacing PLC output relay to TP8 module
(common + / Active low control signal)



Interfacing PLC output relay to TP8 module
(common - / Active high control signal)

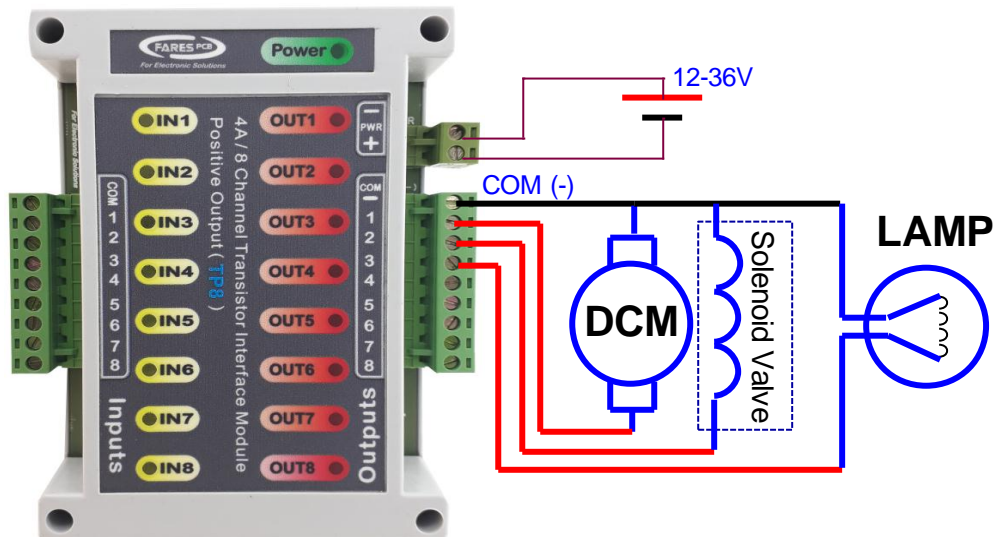


Interfacing PLC output transistor positive to TP8 module
(common - / Active high control signal)



Interfacing PLC output transistor negative to TP8 module
(common + / Active low control signal)

Load Wiring example



Example of driving DC motor, Solenoid valve and Lamp using TP8 module

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e-mail us at www.support@fares-pcb.com .

FARESPCB co. (Head office)

32 El-Falaky st, Bab El-Louq, Tahrir, Cairo, Egypt.

Tel: +202-23904484

Mob: +201000652977

Mob: +201022457902

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Distributor:

RAM Electronics

**32 El Falaky St. Bab El Louk,
Tahrir, Cairo**

Egypt.

Tel: +202-27960551

www.ram.com.eg

Sales@ram-electronics.com

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