

- Interface relay modules are built as sets of 8 relays type RM83 (RM63 for AC control) placed in sockets soldered in printed circuits. RM83 relays can be replaced by RM85 relays. All terminal points are numbered with polyester tags, fixed thermally and resistant for abrasion
- Module bases are made of plastic materials with increased mechanical resistance, resisted low and high work temperature with very good insulation characteristics
- There is a choice of two plastic material types in standard: PVC and polyamide PA, the second one has lighter parameters and is recommended to use in the most severe environment conditions
- Bases have the adaptors which makes possible the mounting on the typical 35 mm DIN rail mounting, EN 50022. They are also adapted to the mounting on the flat surface by mounting holders

Input data

Input voltage ❶	DC	5-6-9-12-18- 24 -36-48-60-110 V
	AC/DC	5-9-12- 24 -48-60-110 V
	AC	6-12-24-48-60-110- 220 -240 V
Coil operating range		0,7-1,1 U _n
Relay release voltage		≥ 10% U _n
Relay rated power consumption		8 x 0,8 W
Operating time		10 ms
Release time		10 ms

Output data

Contact number & arrangement	8 x 1C/O
Max. voltage	250 V AC
Rated current (resistive load)	8 x 8 A AC
Max. switching current	8 x 10 A
Electrical life	10 ⁵
Mechanical life	3 x 10 ⁷

Insulation

Insulation I/O	AC	4 kV 1 min.
Dielectric strength: pole-pole	AC	2 kV 1 min.
Max. switching voltage		250 V AC / 300 V DC

General data

Dimensions (L x W x H)	146 x ❷ x 60 mm
Operating temperature	-25...+50 °C

❶ Standard coil rated voltages marked with bold type.

Modul type	Lenght of modul	❷ Widht of modul		Height of modul
		C - PVC	U - Poliamid PA	
S	146,0±0,5	86,8	77,0	60,0
F	146,0±0,5	125,4	111,0	60,0
G	146,0±0,5	125,4	111,0	60,0
R	146,0±0,5	125,4	111,0	60,0
H	146,0±0,5	86,8	77,0	60,0

Applications

Relay modules have been designed as the automatics elements interfacing control circuits with current circuits (which contain executive devices). Use of electromagnetic relays allows the effective separation of galvanic controlling part from the current one. Clamps arrangement on the opposite sides of the module guarantees the proper guide of the wires. The main field of the modules use are the control systems based on PLC controller. Modules can be connected directly to binary outputs. Thank to this fact controller electronics systems are not endangered by the unfavorable effects of the undefined states appearing with devices switching off and on. It has the special importance in case of inductive or capacitive devices. PMI8 module series can be used for the galvanic separation of circuits in automatics systems for current circuits control (for example contactors, electro-valves, fans, engines switching on, or the applications of extreme breakers).

Interface relay modules can co-operate with each type of PLC controller. They are a necessary supplement of automatics control systems. Elastic construction gives the possibility of different project solutions in relation to switching techniques, control versions, (common „+“ or „-“) and voltage versions even the execution for the individual orders.

Working plane

Modules work correctly with diversion from the horizontal plane up to 180°

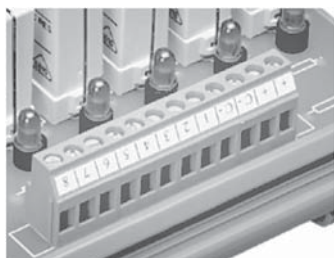
Connection technical data

		Connection D	Connection V	Connection Q
Rated voltage V	Socket	250	250	250
	Pin	-	250	250
Rated surge voltage kV	Socket	4	4	4
	Pin	-	4	4
Cross section / Nominal current mm ² /A*	Socket	4/24 2,5/21 1,5/16	2,5/12 1,5/10 0,75-1/8	2,5/12 1,5/10 0,75-1/8
	Pin	-		
Pitch		5,08	5,08	5,08

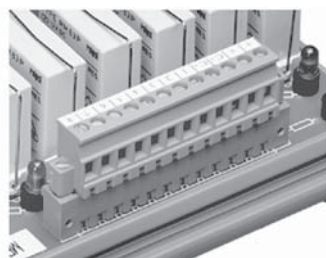
Type of conductor	Wire	Strand	Wire	Strand	Strand
Cross section mm ²	0,2 - 4,0	0,2 - 2,5	0,2 - 2,5	0,2 - 2,5	0,75 - 1,0
Stripping length mm	8	8	7	7	not required

* up to 50 °C

Three types of terminal blocks are available.
All connection modes allow full switching capacity of modules.



D type - screw terminals,
soldered in PBC



V type - screw terminals,
plugged in

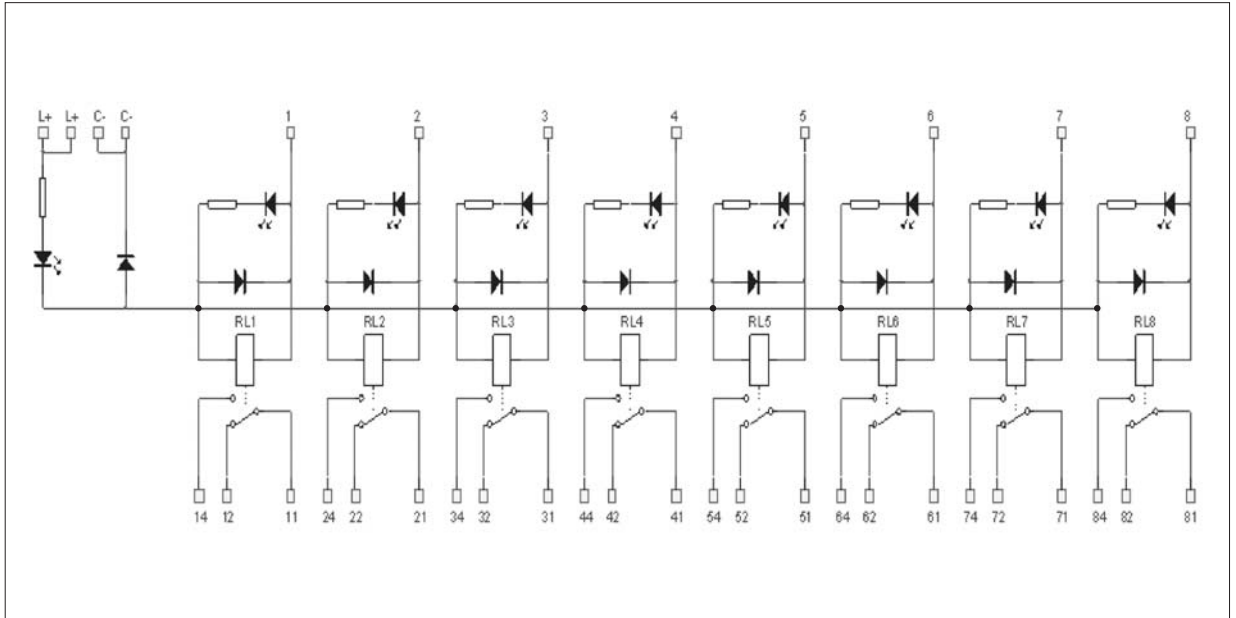
Q type - self rocking terminals. Recommended only for connection of copper strands. While connecting, terminal cuts off segment of insulation, exposes copper strand and provides firm connection. Saves labour consumption at wiring.



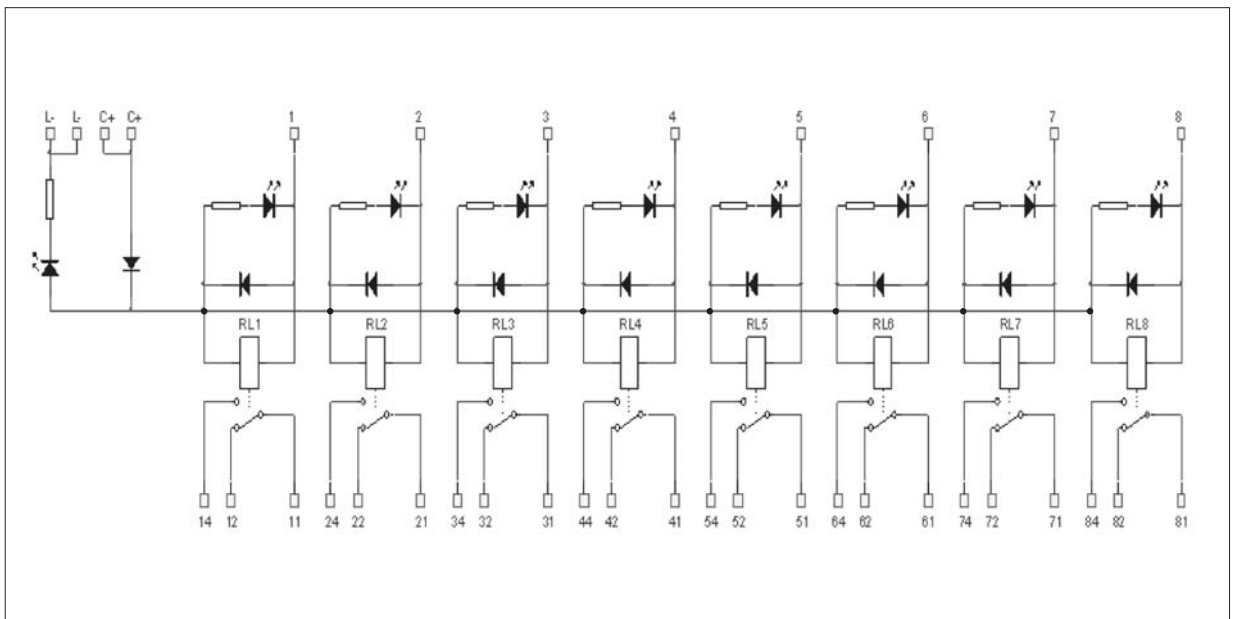
I/O Relay module, type PMI8-SxxxxDC

This module is designed to separate two-state controller outputs and to increase current load capacity of the optional binary outputs (relay or OC types) which can be found in controllers, regulators and numeric meters. Module is controlled by a voltage signal DC (versions from 5 to 110 VDC).

Connection diagram - PMI8-SNxxxDC



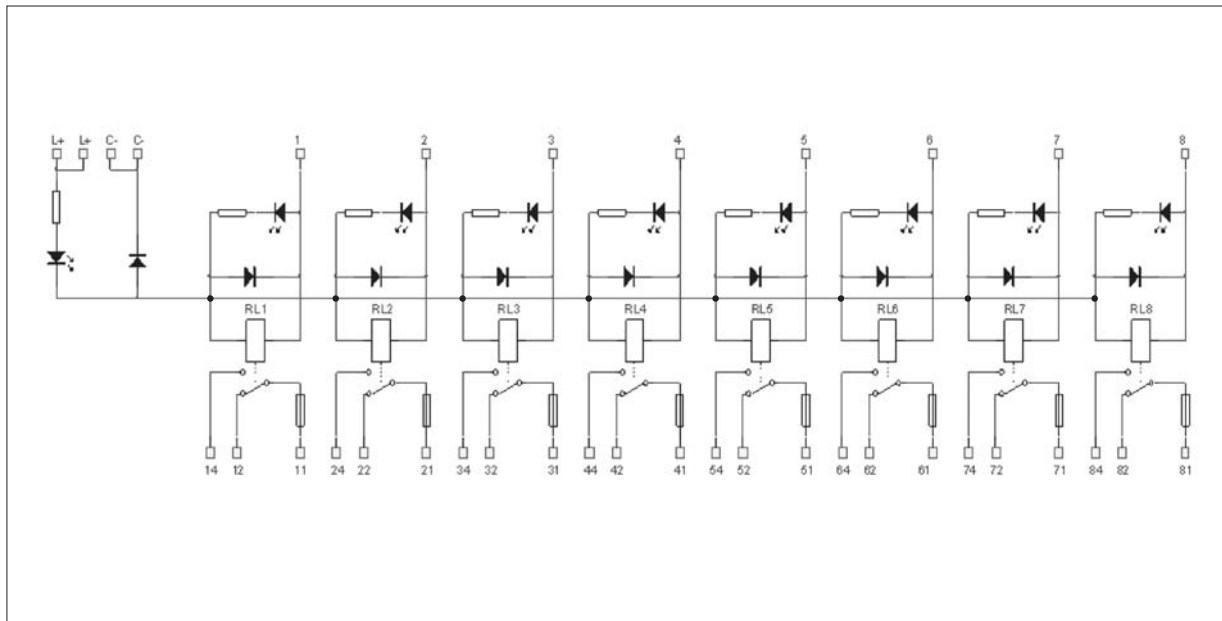
Connection diagram - PMI8-SPxxxDC



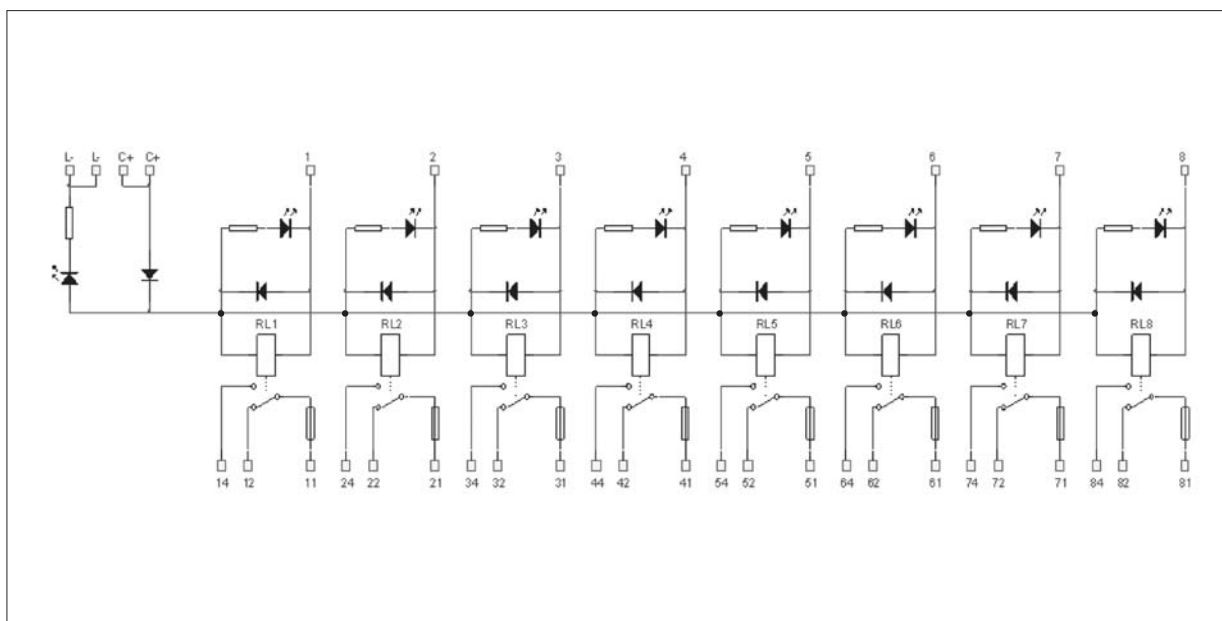
I/O Relay module, type PMI8-FxxxxDC

This module is designed to separate two-state controller outputs and to increase current load capacity of the optional binary outputs (relay or OC types) which can be found in controllers, regulators and numeric meters. Load circuit is protected by a fuse (5 x 20 mm) selected for an application. Module is controlled by a voltage signal DC (versions from 5 to 110 VDC).

Connection diagram - PMI8-FNxxxDC



Connection diagram - PMI8-FPxxxDC



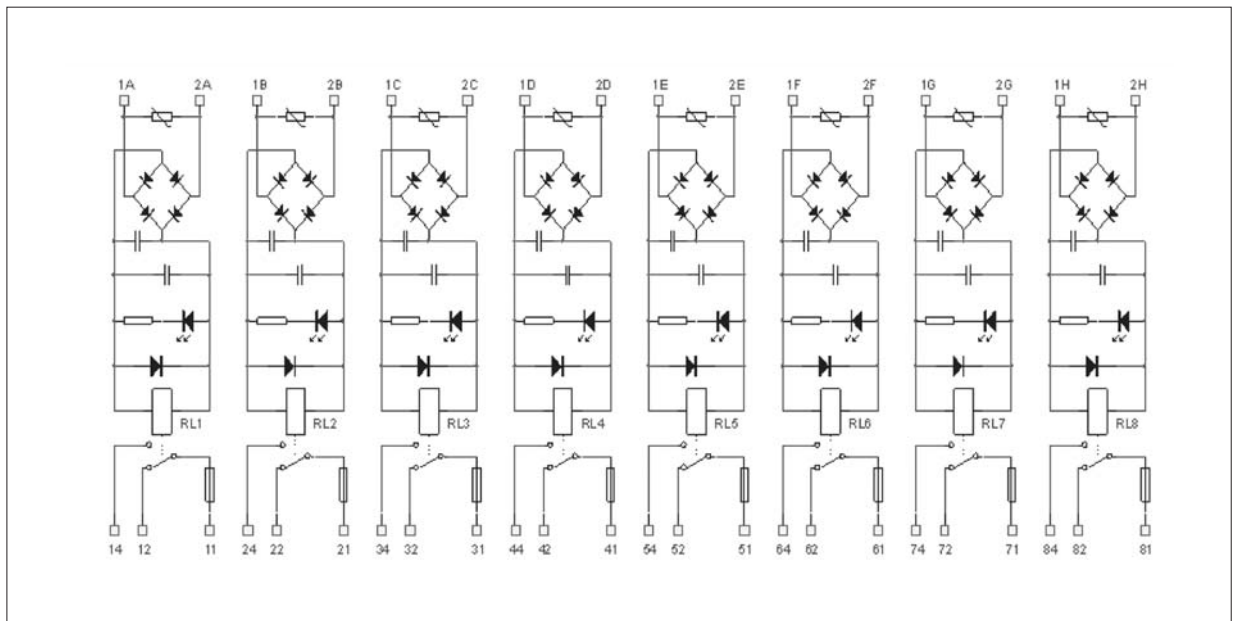
I/O Relay module, type PMI8-GxxxxAC/DC

This module is designed to separate two-state controller outputs and to increase current load capacity of the optional binary outputs (relay or OC types) which can be found in controllers, regulators and numeric meters. Load circuit is protected by a fuse (5 x 20 mm) selected for an application. Module is controlled by a voltage signal AC or DC (versions from 5 to 115 VAC/ VDC). Each module pole is an autonomic circuit and does not depend on the next circuit what makes possible the control of the module part by AC signal and use of the DC signal for the control of another part. Also the production of versions with particular poles different voltage values is possible.

Attention:

Second code letter (inputs polarization) - no importance, separate poles.

Connection diagram - PMI8-GxxxxAC/DC



I/O Relay module, type PMI8-RxxxxAC

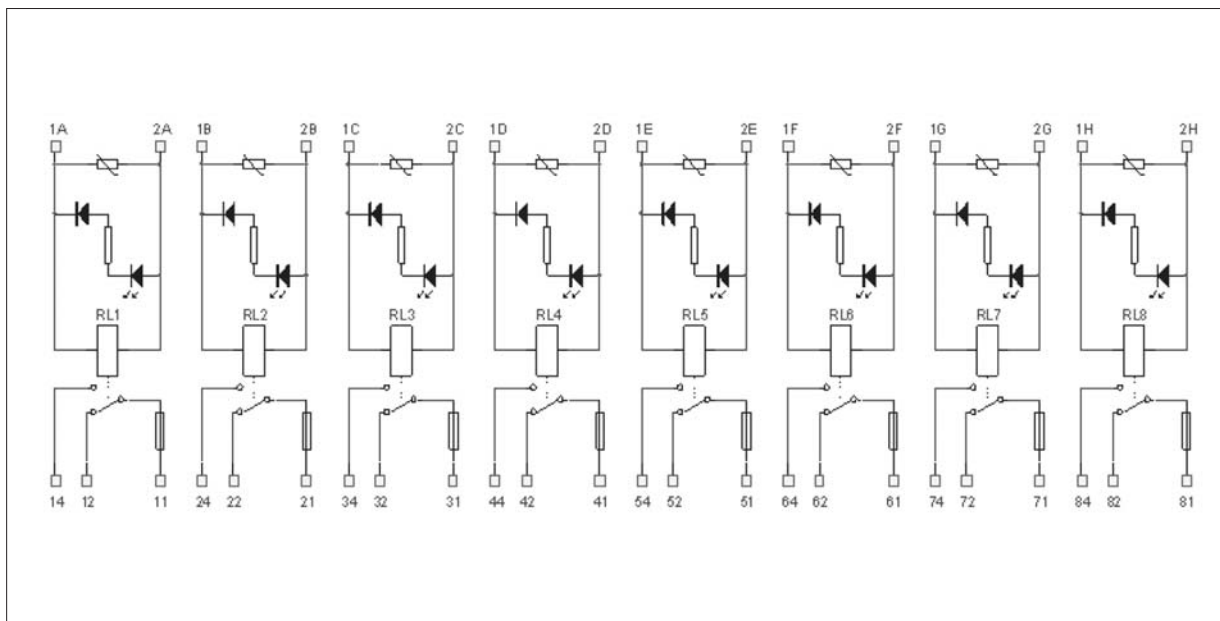
This module is designed to separate two-state controller outputs and to increase current load capacity of the optional binary outputs (relay or OC types) which can be found in controllers, regulators and numeric meters. Input circuit is protected by varistors matching AC control voltage. Load circuit is protected by a fuse (5 x 20 mm) selected for an application. Module is controlled by a voltage signal AC (versions from 6 to 240 VAC). Each module pole is an autonomic circuit and does not depend on the next circuit. Also the production of versions with particular poles different voltage values is possible.

Attention:

Second code letter (inputs polarization) - no importance, separate poles.



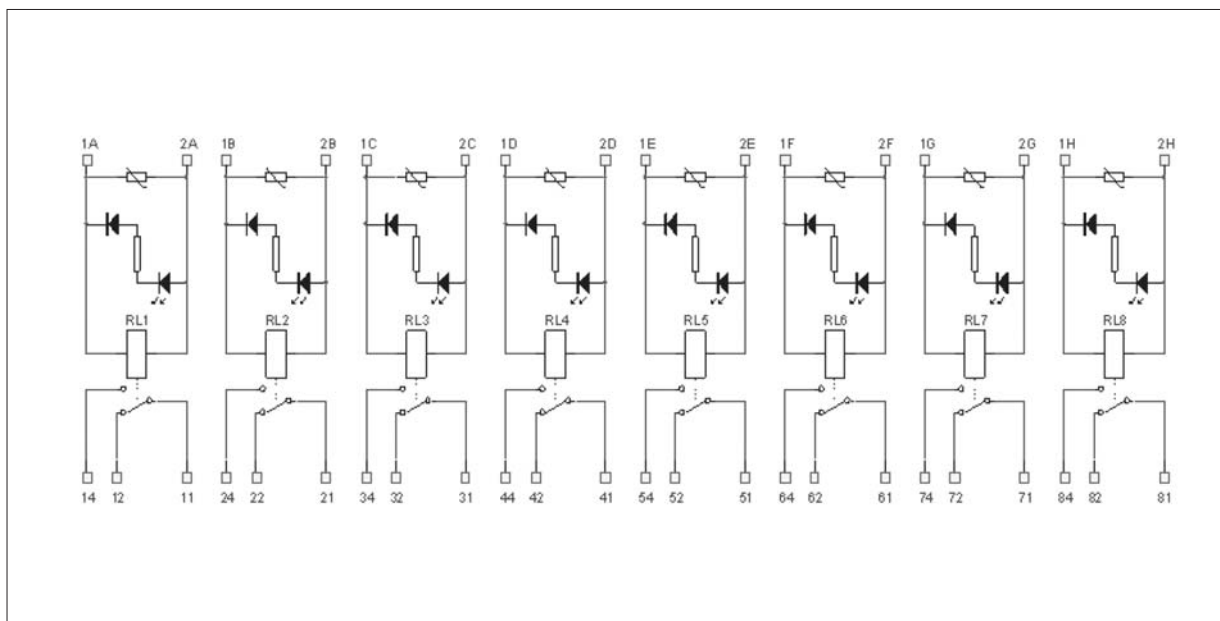
Connection diagram - PMI8-RxxxxAC



I/O Relay module, type PMI8-HxxxxAC

This module is designed to separate two-state controller outputs and to increase current load capacity of the optional binary outputs (relay or OC types) which can be found in controllers, regulators and numeric meters. Input circuit is protected by varistors matching AC control voltage. Module is controlled by a voltage signal AC (versions from 6 to 240 VAC). Each module pole is an autonomous circuit and does not depend on the next circuit. Also the production of versions with particular poles different voltage values is possible.

Connection diagram - PMI8-HxxxxAC



Relay interface module code system

