



- Electromagnetic relay modules
- Versions 4 x 1CO and 8 x 1CO
- Installation design DIN 35mm
- Supply of 12V DC, 24V DC and 48V DC
- Coils independent and with common pole
- For building and industrial applications
- In accordance with PN-EN 61810-1



### Description

The electromagnetic relay modules are designed to increase the load current. Galvanic insulation between the coils and the contacts allows to control circuits powered from separate sources. Independent versions contain galvanically separated relay coils, which facilitates connecting the modules to different control equipment, such as PLCs. Dependent versions contain common coil pole, which can reduce the number of external connections. The relay contacts and the coils are surge protected with varistors. Presence of the input voltage is indicated by green LED separately for each relay. Plug-in connectors in RMM-PEX1-... versions allow quick module replacement without the need of wire disassembly.

### Technical Data

Output circuit		...-xEI1-...-410C	...-xED1-...-410C	...-xEI1-...-810C	...-xED1-...-810C
Contact arrangement		4 x 1CO – changeover		8 x 1CO – changeover	
Rated contact voltage		V AC	250		
Rated switching current I <sub>n</sub> in category	AC1	A/V AC	10/250		
	DC1	A/V DC	10/24		
Maximum continuous current ❶		A	8		
Maximum switching load AC1		VA	2 500		
Contact resistance		mΩ	≤ 100		
Maximum operating frequency at rated load I <sub>n</sub>		cycles/h	600		
Input circuit					
Rated supply voltage U <sub>n</sub>		V			
	RMM-...-D012-...		12V DC		
	RMM-...-D024-...		24V DC		
	RMM-...-D048-...		48V DC		
Supply voltage tolerance			0,8...1,2U <sub>n</sub>		
Rated consumption (per relay)		W			
	RMM-...-D012-...		≤ 0,3		
	RMM-...-D024-...		≤ 0,36		
	RMM-...-D048-...		≤ 0,5		
Coil arrangement		Independent	Dependent	Independent	Dependent
Surge immunity		V	1 000 1,2/50μs		
Polarity of coil voltage			any		
Insulation					
Insulation rated voltage		V AC	250		
Rated surge voltage	contact-coil circuit-DIN rail	V	4 000 1,2/50μs		
Overvoltage category			III		
Pollution degree			2		
Flammability			94V-0		
Dielectric strength		V AC			
	▪ coil – contact (reinforced)		4 000		
	▪ open contact		1 000		
	▪ contact pairs (basic)		2 000		
	▪ circuit – DIN rail (reinforced)		4 000		
General data					
Electrical life AC1 at 50% rated load I <sub>n</sub>	cycles		≥ 1,5 x 10 <sup>5</sup>		
Mechanical life	cycles		≥ 10 <sup>7</sup>		
Ambient storage / Operating temperature	°C		-40...+70 / -20...+55		
IP rating			IP10		
Maximum humidity	%		85		
Shock resistance	g		15		
Vibration resistance	mm		0,35 10...55Hz		
Indicator			Green LED		
Operating time / voltage			<20ms / <0,75U <sub>n</sub>		
Release time / voltage			<25ms / >0,1U <sub>n</sub>		

❶ Maximum continuous current per relay.

## Ordering information

RMM - E 1 - 10C

**P:** plug-in



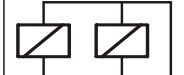
**F:** fixed



**I:** independent



**D:** dependent



**Coil voltage**

D012: 12VDC

D024: 24VDC

D048: 48VDC

**No of relays**

4 or 8

**Switching current**

10A

**Contact arrangement**

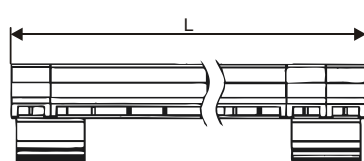
C: Form C

**Example**

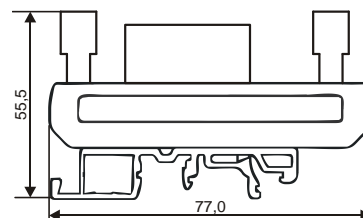
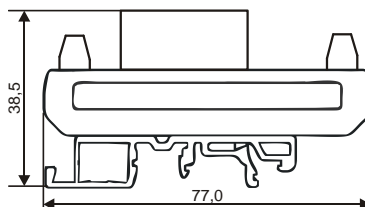
8 relays with dependent coils 24VDC and plug-in connectors

**RMM-PED1-D024-810C**

## Dimensions

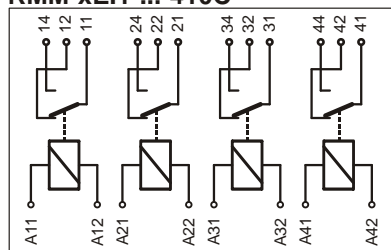


RMM-...-410C: L=67,5mm  
RMM-...-810C: L=135,0mm

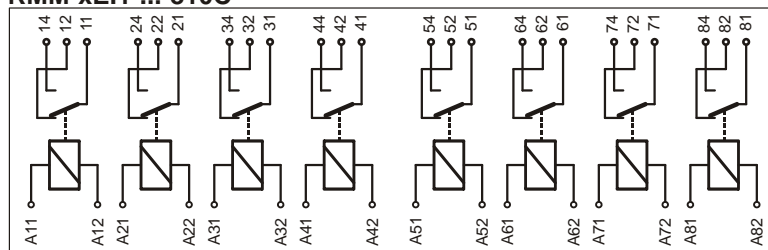


## Connections

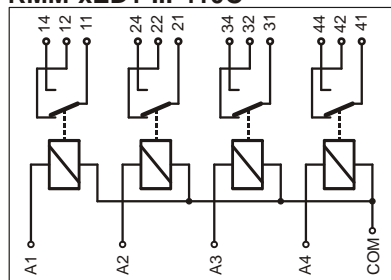
### RMM-xEI1-...-410C



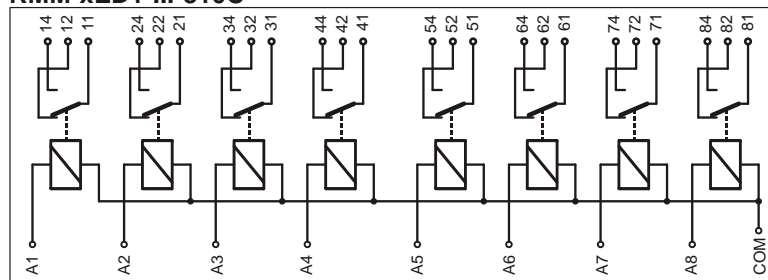
### RMM-xEI1-...-810C



### RMM-xED1-...-410C



### RMM-xED1-...-810C



Dobry Czas Sp. z o.o. 51-315 Wrocław ul. Miłostowska 7/6

+48 71 729 95 90

marketing@dobry-czas.pl

NIP: 895 196 15 13

[www.dobry-czas.pl](http://www.dobry-czas.pl)