

External Input/Output Modules

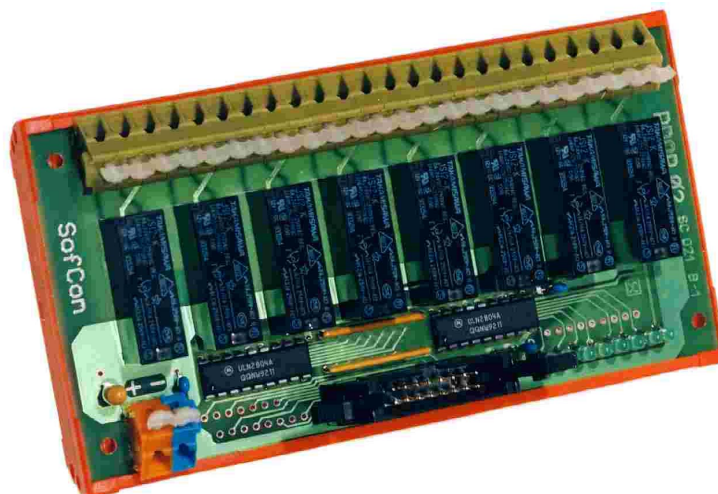
PDOR02

8-Relay Module



5.1

- 8 change-over relay contacts
- ~250V/8A, =24V/8A
- Controlled with 8 logic signals
- Supplied by safety extra low voltage
- LED output indication



Basic Characteristics

The module contains heavy-current relays, which are closed through drivers by supplied low logic level voltage, or ground (by a circuit with open collector or contact). The negative pole of inputs is shared. Relay closing is indicated with a lighting indication LED. Input signals are connected to a 16-pin X1 PSL16 connector. The supply voltage shares the negative pole with inputs and is connected to the X3 connector terminals. The change-over relay contacts are terminated on X2 connector terminals and are separated.

The module is built on a printed circuit board. It is supplied with a mounting frame for mounting on a DIN rail TS35 as standard. It can also be supplied without the frame and mounted using the holes in corners. The module is not encased and if connected to mains voltage, it must be provided with an additional case or mounted in an enclosed switchboard case.

Technical Data

Unit type	PDOR02/5	PDOR02/24		
No. of outputs	8	8	Contact type	change-over
Supply voltage	5V ±10%	24V ±10%	Switched current	max. 8A/250VAC, 24VDC
Supply current	max. 400mA	max. 120mA	Switched voltage	max. 380V
Input voltage	L -0.5 to 1V	-0.5 to 5V	Switch on/off time	max. 6 / 2ms
	H 2.4 to 5.5V	15 to 30V	Lifetime of 0A /8A contact	2x10 ⁷ / 10 ⁵ contacts
Input current	L -7.4mA at 0V	-3.5mA at 0V	Electric strength	
	H 0.8mA at 5V	0.7mA at 24V	input terminals vs. output	4000VAC
Input logic level			Between connector terminals of neighboring relays	1500VAC
	relay closing	L or grounded	Ambient working temp.	0 to +50°C
relay opening	H or opened	Dimensions	max. 90 x 75 x 54mm	
		Connector terminals	crimping, wire 0.15 to 2.5 mm ²	

Ordering Information

The basic models PDOR02/5 and PDOR02/24 are fitted with a mounting frame, with no accessories. Please specify any special features in your order, such as:

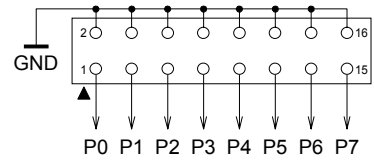
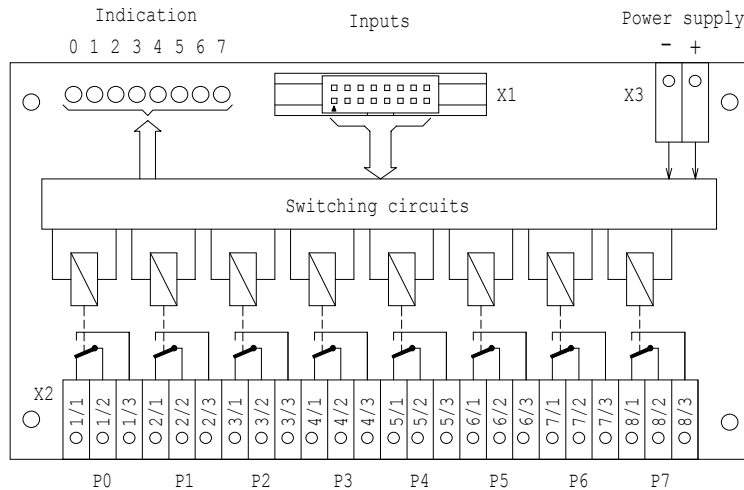
PDOR02/05 without mounting frame

Specify accessories:

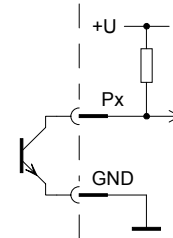
PFL16 connector (to supply input signals)

Varistors for 230V (interference elimination 230VAC)

Location of connector terminals and wiring



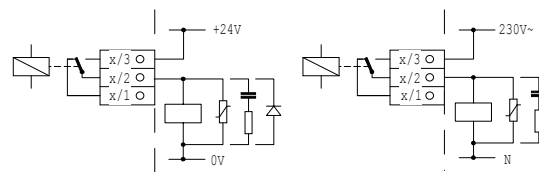
connector connection X1



example of input connection

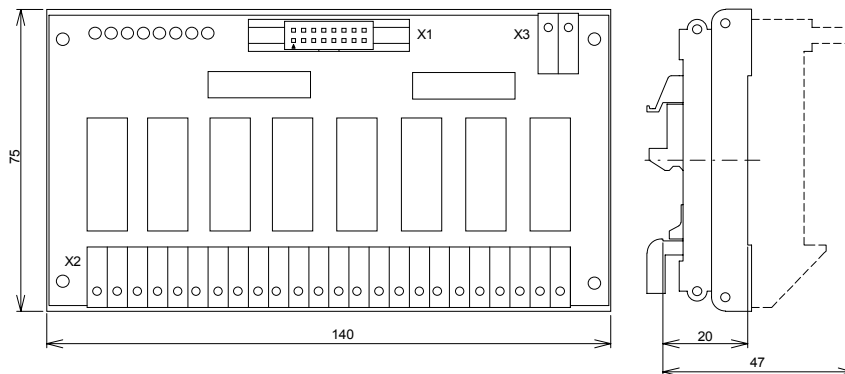
Interference Elimination on Output Circuits

When switching the lagging load (contactor coils, motors), interference must be eliminated using external quenching circuits that will absorb surges. These are, for instance, varistors and RC members for AC voltage, and diodes connected in impenetrable direction, varistors, and RC members for DC voltage. Interference suppression components must be rated with respect to the switched voltage.

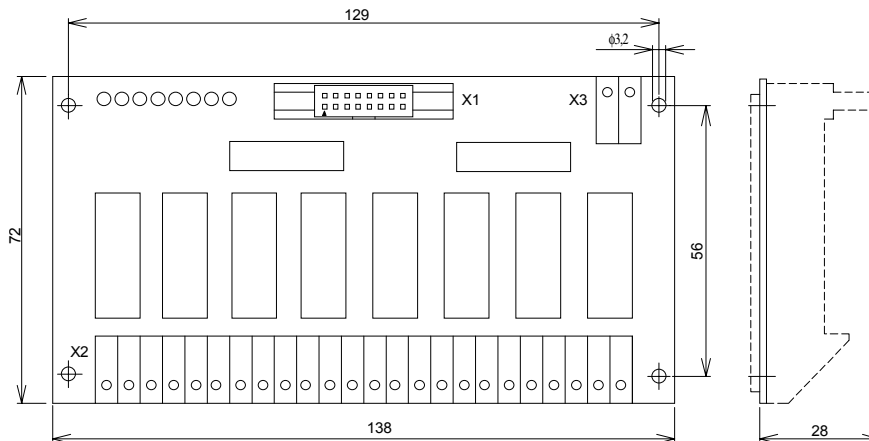


Interference in 24V circuits = Interference in Network circuits

Mounting dimension



Version with a mounting frame



Version without a mounting frame

