Safety

DANGER — ***Installation may only be performed when the module and all connected devices are powered off. Voltage on the terminals can be dangerous!***

CAUTION — ***It is necessary to observe the polarity while connecting 24V DC power supply! Voltage reversal can damage the device.***

NOTICE — ***Installation and maintenance may only be carried out by specialist personnel using the correct tools!***

Ordering information

PRM-X.1
- Supply voltage
- I/O

Supply voltage	230	-	230 (90…264) V AC
	24	-	24 (19…30) V DC
I/O	1		8 DI, 8 DO

Specifications

Table 1 General specification

Device	PRM-230.1	PRM-24.1
Power supply	230 (90…264) V AC; 50 (47…63) Hz	24 (19…30) V DC
Power consumption, max.	8 VA	4 W
Galvanic isolation	2830 V	1780 V
Inputs — Digital	8	
Inputs — Analog	-	
Outputs — Digital	8	
Outputs — Analog	-	
IP Code	IP20	
Appliance class	II	
Operation temperature	-20…+55°C	
Relative humidity	up to 80% (at +25°C, non-condensing)	
Dimensions (with terminals blocks)	88 x 108 x 58 mm	
Mounting	DIN rail (35 mm)	
Weight	approx. 250 g	

Table 2 Digital inputs

Device	PRM-230.1	PRM-24.1
Input voltage	230 V AC	24 V DC
Input voltage, max.	264 V AC	30 V DC
Galvanic isolation	in groups of 4 (1-4, 5-8)	
Test voltage between input groups	1780 V	
Test voltage against other circuits	2830 V	

Table 3 Digital outputs

Device	PRM-230.1	PRM-24.1
Type	Relay (NO)	
Galvanic isolation	in groups of 2 (1-2, 3-4, 5-6, 7-8)	
Test voltage between output groups	1780 V	
Test voltage against other circuits	2830 V	

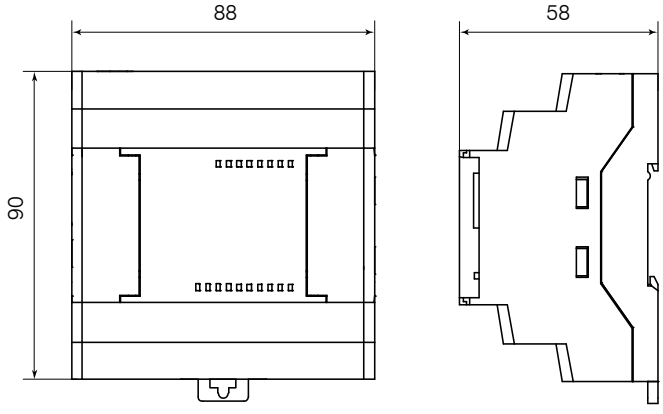

Fig 1 Dimensions

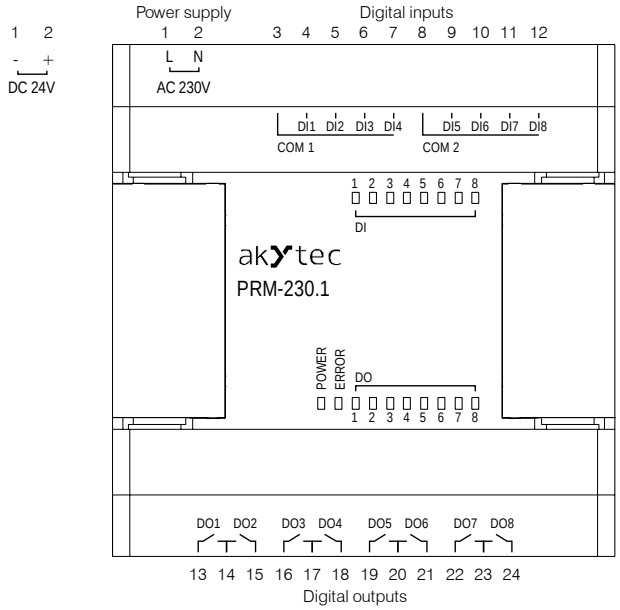

Fig 2 Terminal blocks

Electrical connections

Wire external connections in accordance with Fig. 2-5 and tables 3 using plug-in terminal blocks (included).

WARNINNG — ***Switch on the power supply only after the wiring of the device has been completely performed***

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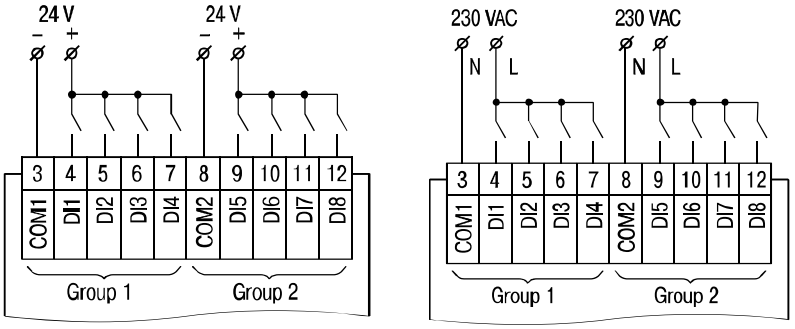
Table 4 Terminal assignment

№	Designation	Function	№	Designation	Function
1	AC230V L / DC24V -	Power supply AC / DC *	13	DO1	Digital output DO1
2	AC230V N / DC24V +	Power supply AC / DC *	14	-	Common contact DO1...DO2
3	COM1	Common minus pole DI1...DI4	15	DO2	Digital output DO2
4	DI1	Digital input DI1	16	DO3	Digital output DO3
5	DI2	Digital input DI2	17	-	Common contact DO3...DO4
6	DI3	Digital input DI3	18	DO4	Digital output DO4
7	DI4	Digital input DI4	19	DO5	Digital output DO5
8	COM2	Common minus pole DI5...DI8	20	-	Common contact DO5...DO6
9	DI5	Digital input DI5	21	DO6	Digital output DO6
10	DI6	Digital input DI6	22	DO7	Digital output DO7
11	DI7	Digital input DI7	23	-	Common contact DO7...DO8
12	DI8	Digital input DI8	24	DO8	Digital output DO8

** Depending on the device modification (PRM-230 or PRM-24)*



a *b*

Fig 3 Connecting switch contacts to digital inputs: a) PRM-24, b) PRM-230

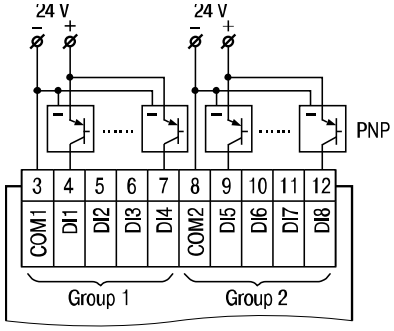


Fig 4 Connecting 3-wire sensors with PNP transistor outputs

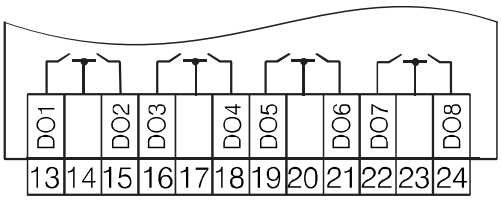


Fig 5 Relay outputs

Transportation and storage:

Pack the device in such a way as to protect it reliably against impact for storage and transportation. The original packaging provides optimum protection.

If the device is not taken immediately after delivery into operation, it must be carefully stored at a protected location. The device should not be stored in an atmosphere with chemically active substances.

Permitted storage temperature: -25...+55 °C

Relative humidity: up to 95% (at +35°C, non-condensing)

► **NOTICE**

The device may have been damaged during transportation.
Check the device for transport damage and completeness!
Report the transport damage immediately to the shipper and akYtec GmbH!

Scope of delivery:

– PRM 1
– Short guide 1
– Cable 1
– Terminals blocks (set) 1