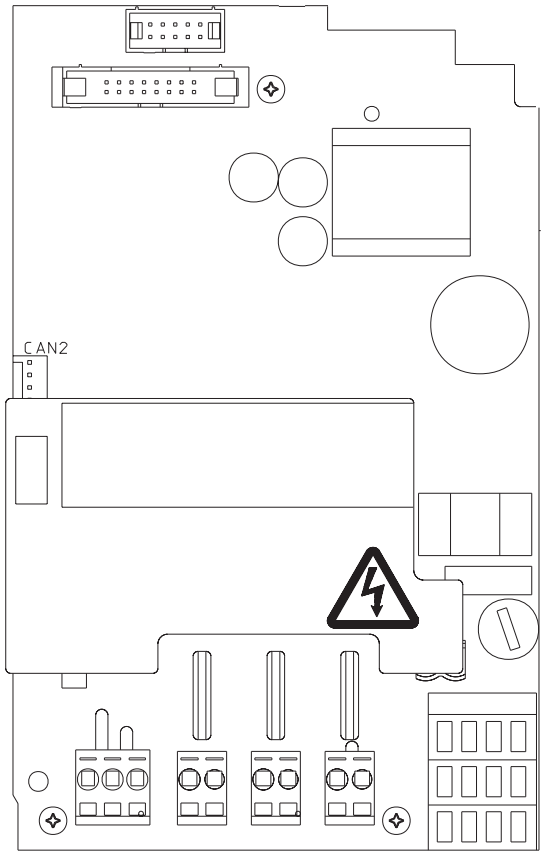
Supplementary Instructions

DULCOMARIN® II, Power Module
with alarm relay and solenoid valve relay
DXMaP



DXMa ___ ___ ___ ___ ___ ___

Please enter the identcode of your module!

These supplementary instructions apply only in conjunction with the "Operating Instructions DULCOMARIN® II"!

Please carefully read these operating instructions before use! · Do not discard!
Damages due to improper operation will invalidate the warranty!

Imprint:
Supplementary Instructions
DULCOMARIN® II, Power Module
with alarm relay and solenoid valve relay
DXMaP
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Identcode

The identcode describes the external modules for the **DULCOMARIN® II, series DXM**

DXMa | **External module for DULCOMARIN® II, series DXM**

Module:

M	Sensor module pH, redox/ORP, temperature
A	Actuator module pumps and analogue output
R	Cl_2 actuator module for motor actuator
N	Power module without relay

Mounting type:

W	Wall mounted (IP 65)
H	DIN rail (IP 20)

Design:

0	with controls
2	without controls

Applications:

S	swimming pool

Language:

00	no operation
DE	German
EN	English
ES	Spanish
FR	French
IT	Italian

Approvals:

01	CE-mark

DXMa M W 0 S 00 01

DXMa Internal modules for DULCOMARIN® II, series DXC.

These modules can be ordered via the identcode of the DXC (see “Operating Instructions DULCOMARIN® II, Part 1: Mounting and Installation”).

1 About this module

The power module DXMaP with alarm relay and solenoid valve relay provides power to the DULCOMARIN® II compact and facilitates control of 3 solenoid valves or peristaltic pumps via pulse frequency, e.g. to raise and lower the pH value, to dose disinfectants or flocculants, to minimise combined chlorine.

The power module DXMaP is equipped with the following outputs:

- power relay output for alarm signalling
- power relay output for solenoid valve or peristaltic pump (pH correction)
- power relay output for solenoid valve or peristaltic pump (disinfectant)
- power relay output for peristaltic pump (flocculant) or relay output@ (minimizing combined chlorine)

and one power output.

2 Safety chapter



IMPORTANT

- ***The power module DXMaP may only be used for controlling alarm horns, solenoid valves, and peristaltic pumps as well as for power supply to the DULCOMARIN® II compact.***
- ***The power module DXMaP may only be used as component part of the DULCOMARIN® II compact.***
- ***The installation may only be performed by specially trained personnel!***

3 Storage and transport

Only store and transport the module in its original packaging!



IMPORTANT

Also protect the packaged module against humidity and exposure to chemicals.

Environmental conditions for storage and transport:

Temperature: - 10 °C to 70 °C

Humidity: Permissible relative humidity: 95 %, non-condensing (DIN IEC 60068-2-30)

4 Mounting and Installation



WARNING

- ***The installation may only be performed by specially trained personnel!***
- ***Please carefully read the instructions in the "Operating Instructions DULCOMARIN® II, Part 1: Mounting and Installation" when mounting and installing the module!***

NOTE

The terminal diagram is enclosed at the end of these operating instructions.

Carry out the CAN connection as described in the "Operating Instructions DULCOMARIN® II, Part 1".

5 Repairs



WARNING

- ***Only the fuse may be replaced by specially trained personnel. All other repairs may only be carried out by the customer service!***
- ***The fuse may only be replaced after the module or device has been disconnected from the power supply and has been secured against re-activation. (effect on plant?)***
- ***System voltage may be present at the terminals P1 - P4 even when the power supply has been switched off.***
- ***Only use genuine fuses. (Order no. 712030)***
- ***Otherwise, all general safety regulations apply.***

6 Technical data

Electrical data

Power relay output for alarm signalling (P1):
Contact type: changeover contact with varistors, interference-suppressed
Load rating: 250 VAC, 3 A max., 700 VA
Contact lifetime: > 10^5 switching cycles (at 3 A)

Power relay output for controller output signalling or limit value signalling (P2 - P4):
Contact type: make contact with varistors, interference-suppressed
Load rating: 250 VAC, 3 A max., 700 VA
Contact lifetime: > 20 x 10^6 switching cycles

Nominal voltage (X1):
90 - 253 VAC (50 / 60 Hz)
Maximum consumption: 500 mA at 90 VAC
180 mA at 253 VAC
Protection from internal with: miniature fuse 5 x 20 mm
630 mA, 250 V, slow
Electrical power consumed: 30 W

The power module DXMaP is equipped with the 1A dc power supply unit, 24 VDC.

Environmental conditions

Storage temperature: -10...70 °C

Type of protection: IP 20

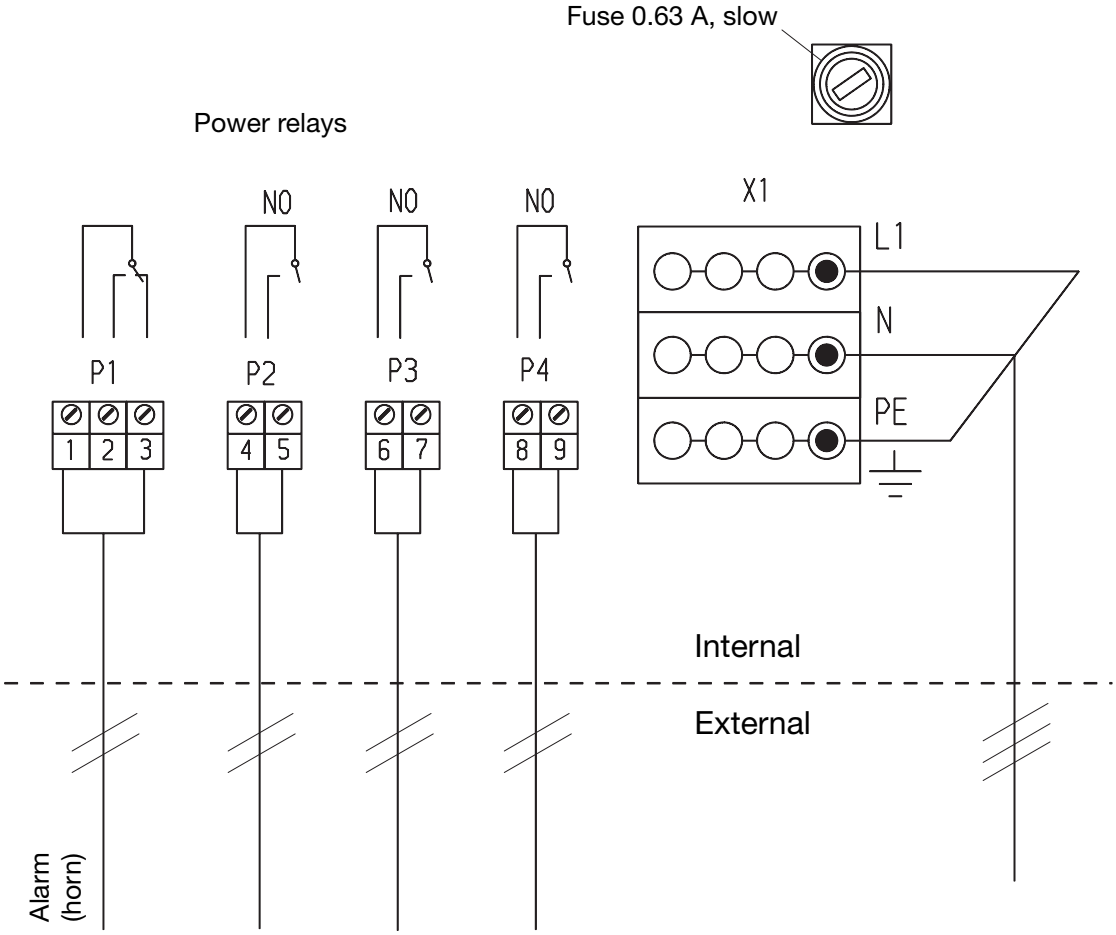
Humidity: Permissible relative humidity: 95 %, non-condensing (DIN IEC 60068-2-30)

7 Terminal assignment

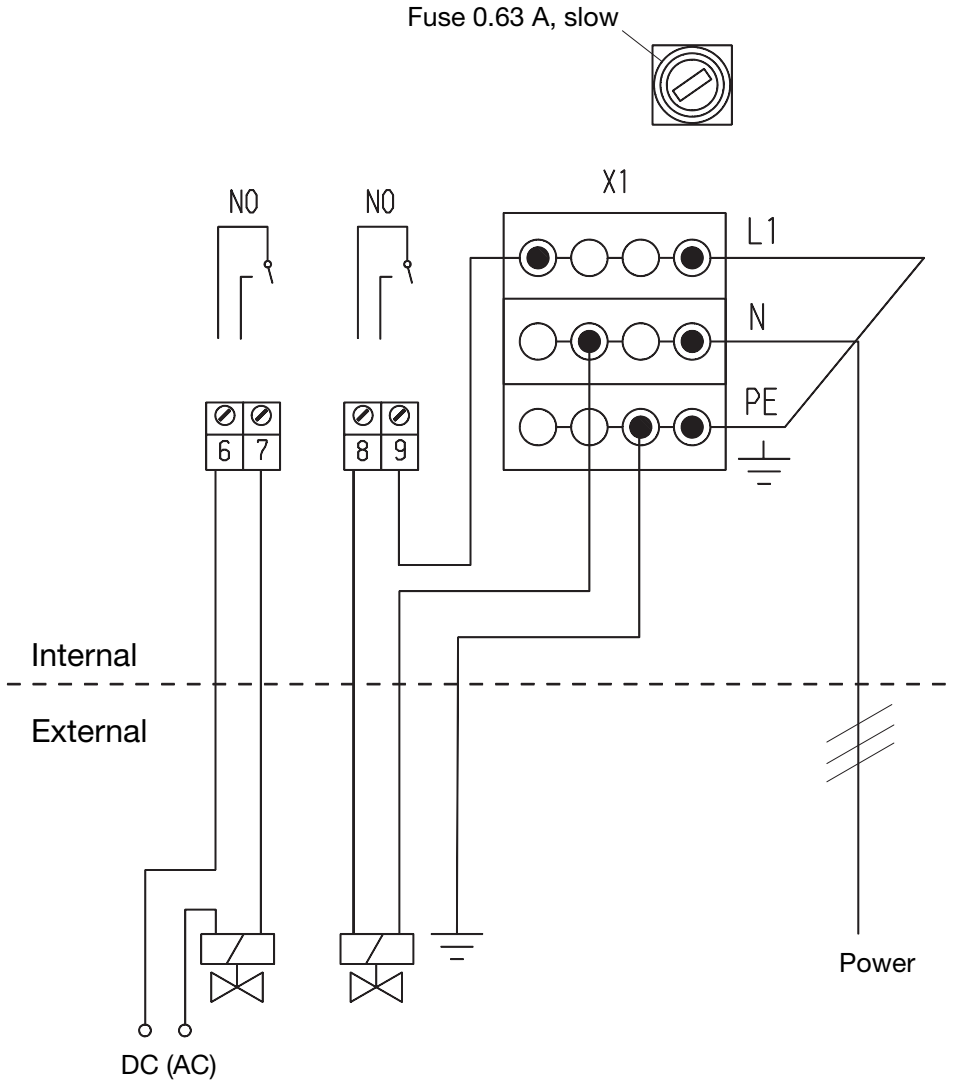
Description	Terminal designation	Terminal no.	Pol.	Function
Alarm relay	P 1	1		Signal-horn (control)
		2		
		3		
Power relay 1	P 2	4		PWM acid (control
		5		Solenoid valve (dulco®flex)) PWM alkaline (control)
Power relay 2	P 3	6		PWM chlorine (control)
		7		PWM ORP (control) PWM pH lowering (Control solenoid valve (dulco®flex))

Description	Terminal designation	Terminal no.	Pol.	Function
Power relay 3	P 4	8		Enable UV plant
		9		
Power	X 1	10	PE	
		11	N	
		12	L(1)	

8 Terminal diagram



Example for the connection of a solenoid valve (or peristaltic pump dulco®flex DF2a or motor dosing pump alpha)



ext. protection required

Diagram also applies to DF2a, Alpb

IMPORTANT

External protection required!

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