

## Panel-mounting universal controller

IP65 enclosure, display, power supply 230 VAC, 4 relays, 5 PT 1000 inputs, 1 0-10 V input, 2 digital inputs, bus interface, clock, plug-in terminals.

The DC24E module is a universal controller that performs measurement, monitoring and control functions for the following applications:

- control of cooling cabinets or cold rooms (MT and LT refrigeration) with thermostatic expansion valves,
- compressor control,
- condenser management,
- humidity control,
- management of air conditioning and lighting zones,
- input-output mode.

The module can be mounted in the front of a cabinet or integrated in a display case.

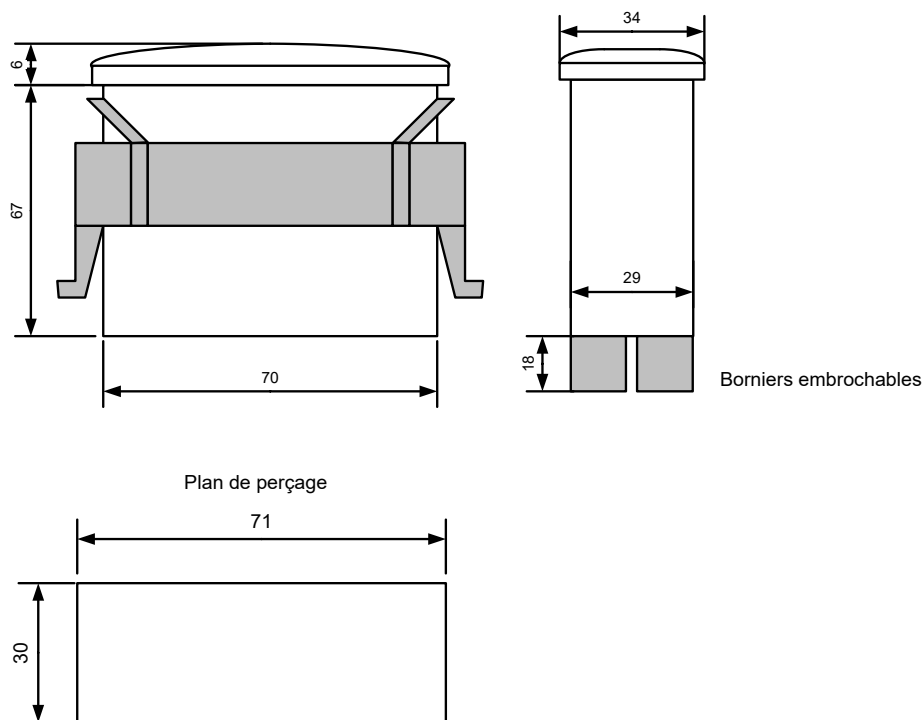
The DC24E module can be programmed using the Teleswin supervision software or directly via the buttons on the front panel. The integrated display shows the values measured by the connected sensors and is used for programming the parameters.



## APPLICATIONS

Medium temperature refrigerated cabinets	yes
Low temperature refrigerated cabinets	yes
Management of compressors	yes (up to 3 compressors, with a pressure sensor 0-10 V)
Hygrometry	yes
Programmable inputs-outputs	yes
Concentration of gazes	yes
Air-conditioning - cooling/heating	yes
Management of lighting areas	yes

## DIMENSIONS



## FEATURES

### Inputs

PT 1000	5 (also compatible with the probes: NTC 10K/25°C, L.243, KTY81)
0-10 V	yes
4-20 mA	no
Digital	2

### Outputs

Relays	4
TRIAC (24-230 VAC)	1
Analogue	no

### Others

White display	yes
Power supply	230 VAC
Remote monitoring bus interface	yes
Clock	yes
Electronic expansion valve	no
Local bus for extensions	no

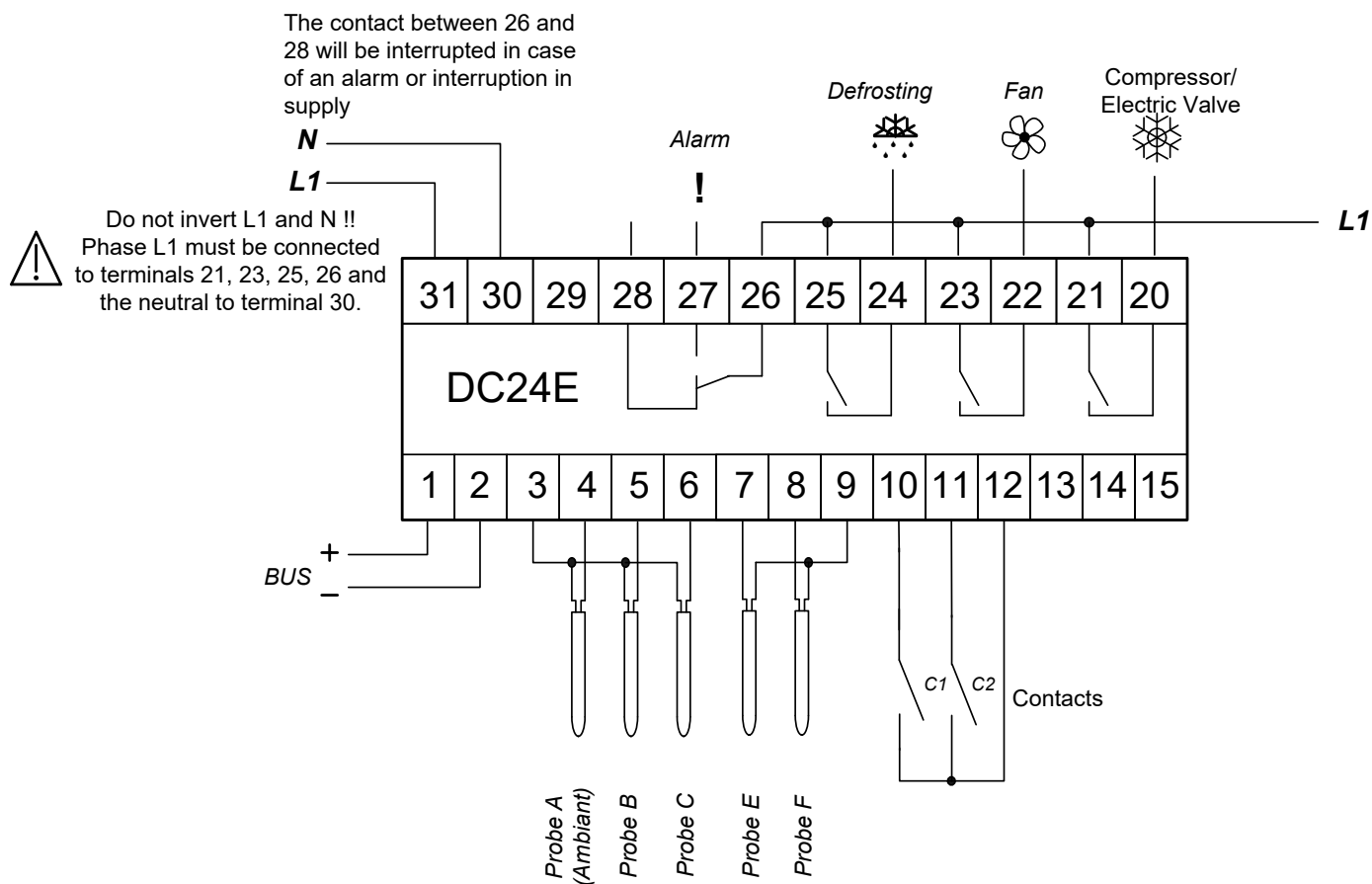
## TECHNICAL DATA

### Power supply

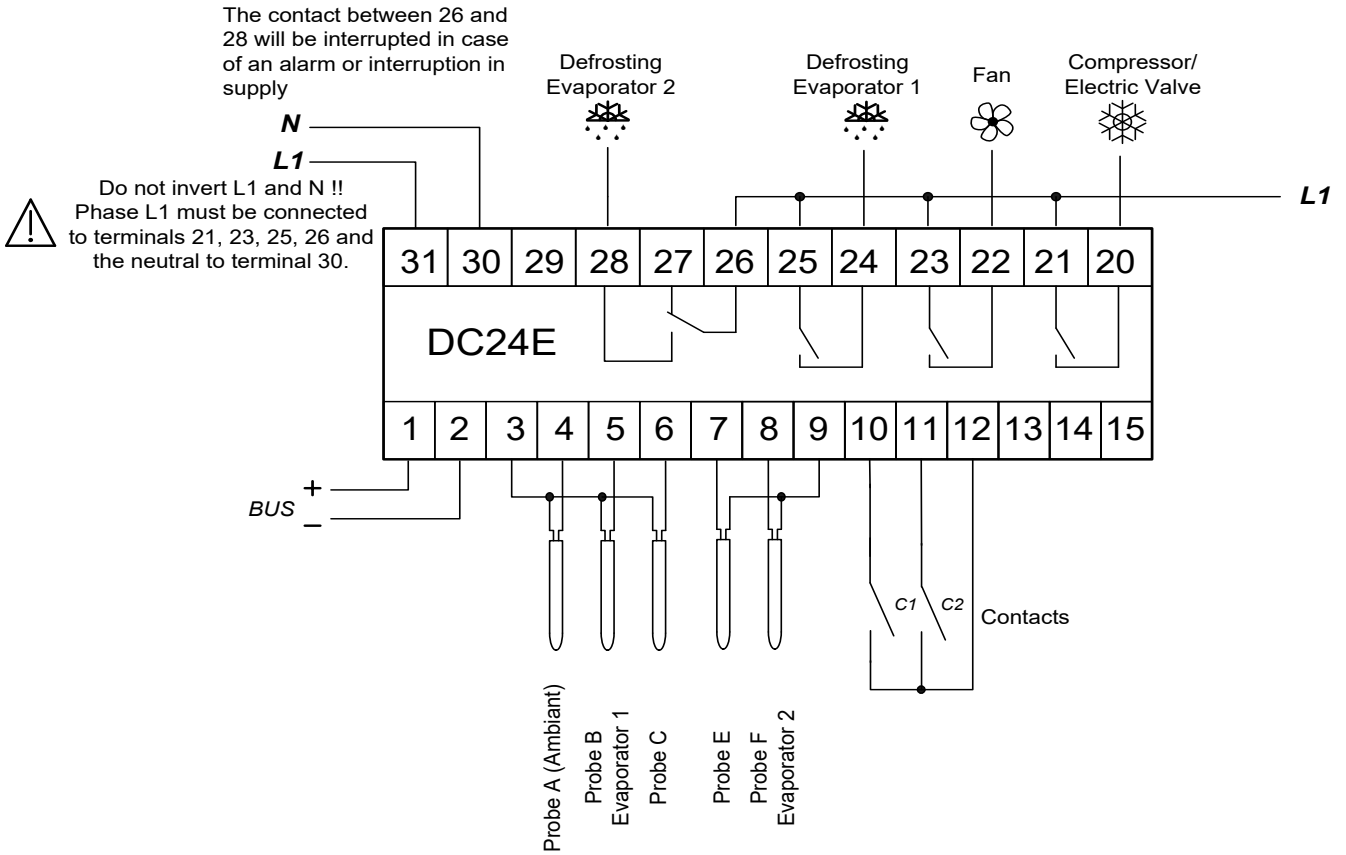
Supply voltage	110-250 VAC, 50-60 Hz
Maximum input power	3 W
Protection rating	1
Contamination rating	2
Overvoltage category	II
Conditions of use	
Temperature	0-40° C
Humidity	IP65 enclosure, 0-80 % (without condensation)
Breaking capacity of relays outputs	inductive load 3 A 250 VAC, resistive load 3 A 250 VAC
Clock – reserve operating margin	4 days
Input 0-10 V	range of measurement: 0-10 V

## ASSEMBLY DIAGRAMS

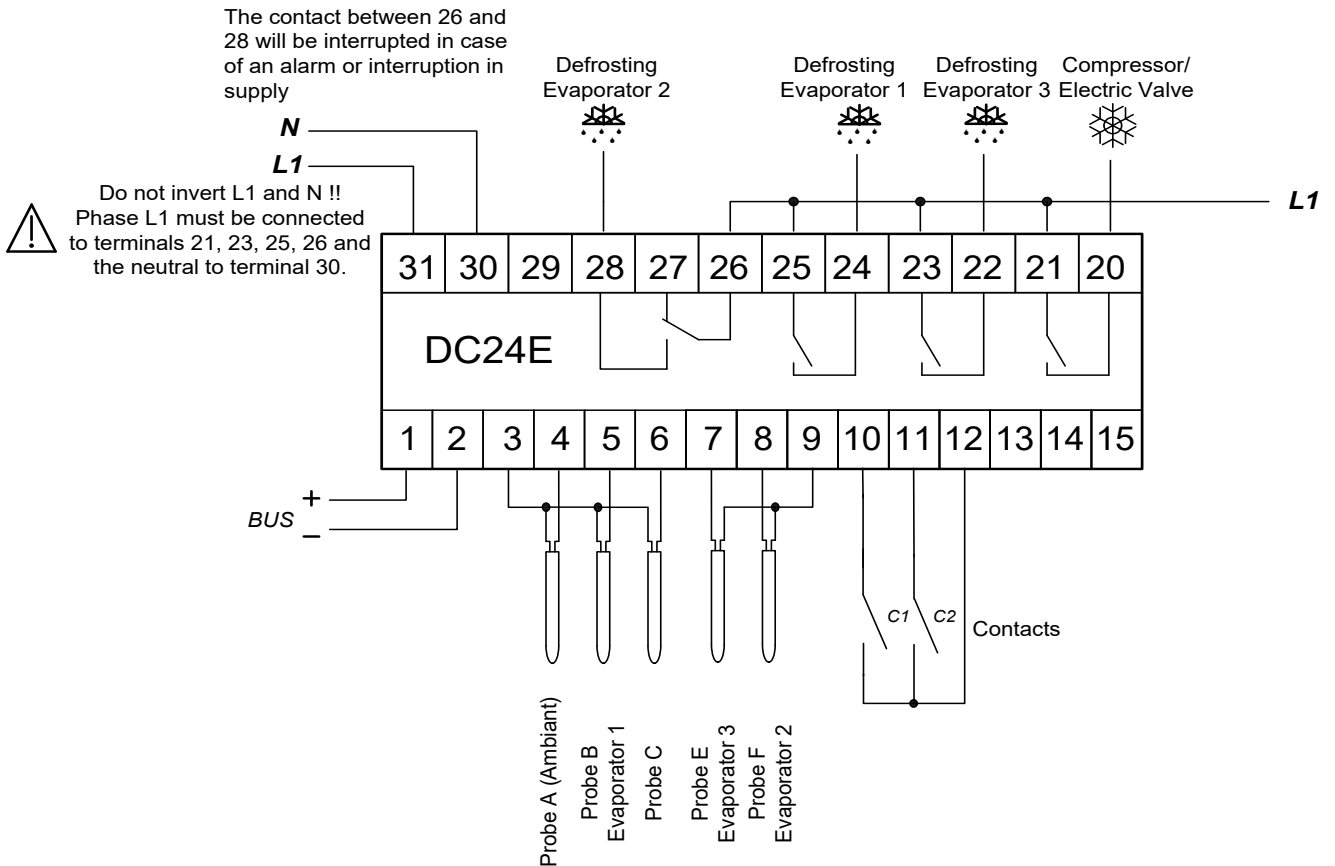
### DC24E in refrigerated unit control mode



## DC24E for the control of two cabinets

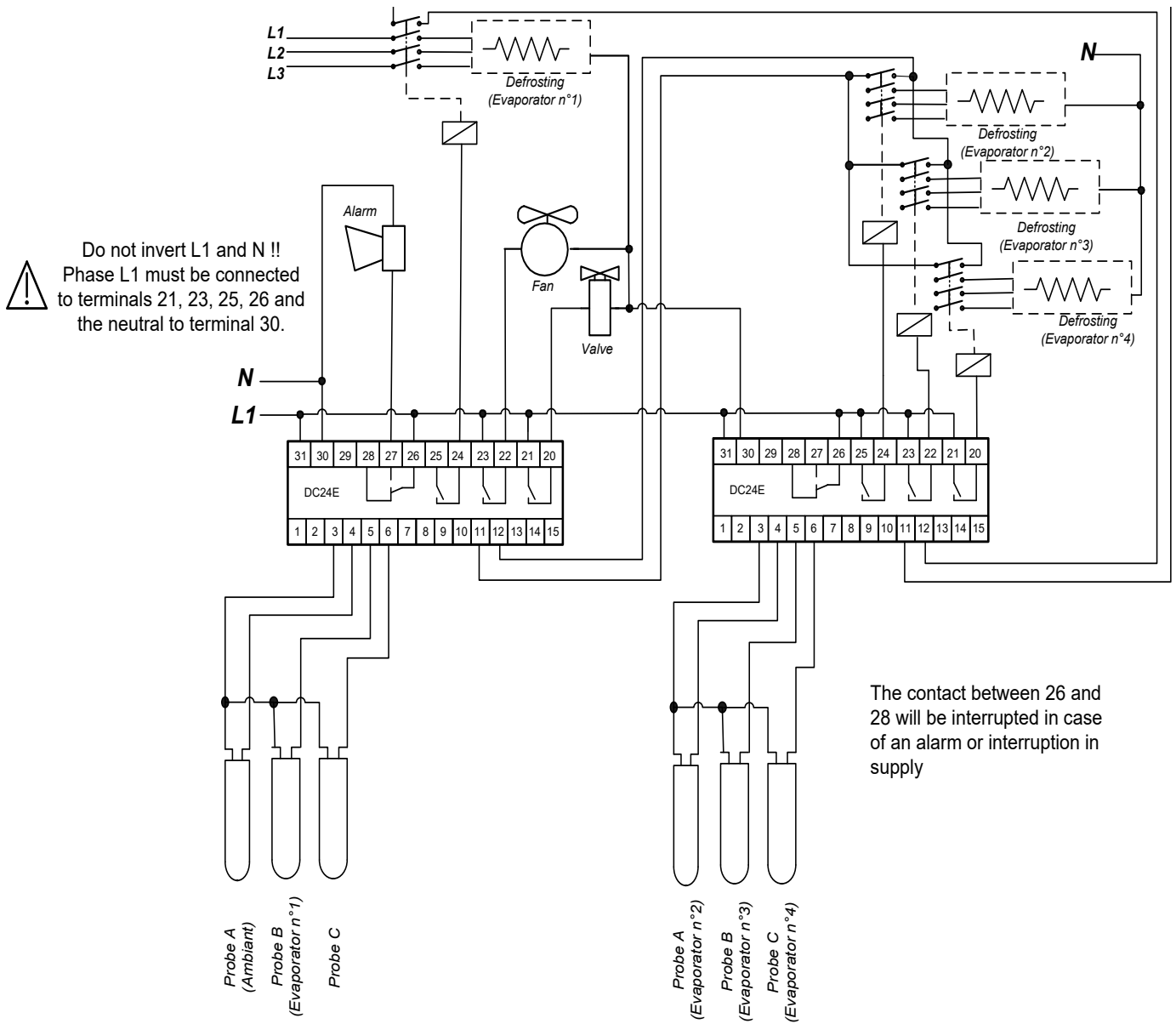


## DC24E for the control of three cabinets



## DC24E for the control of refrigeration units with several evaporators

Each evaporator is controlled by a separate solenoid valve. Defrosting of all evaporators can be carried out simultaneously or separately.

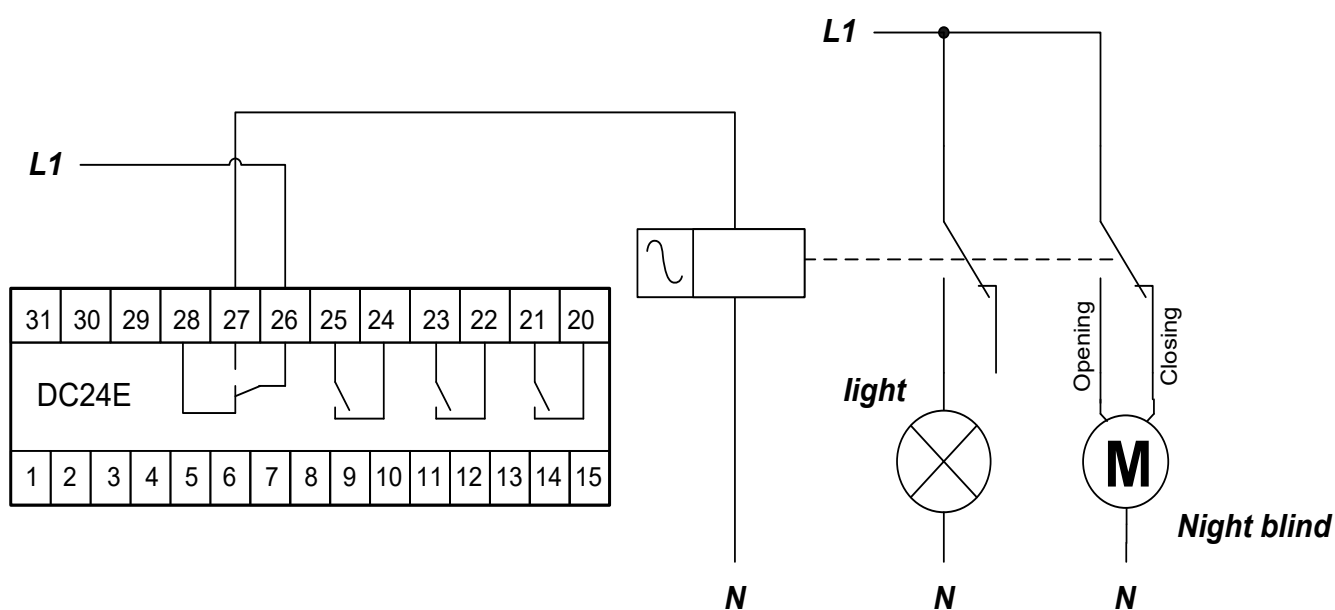


## DC24E and weekly calendar

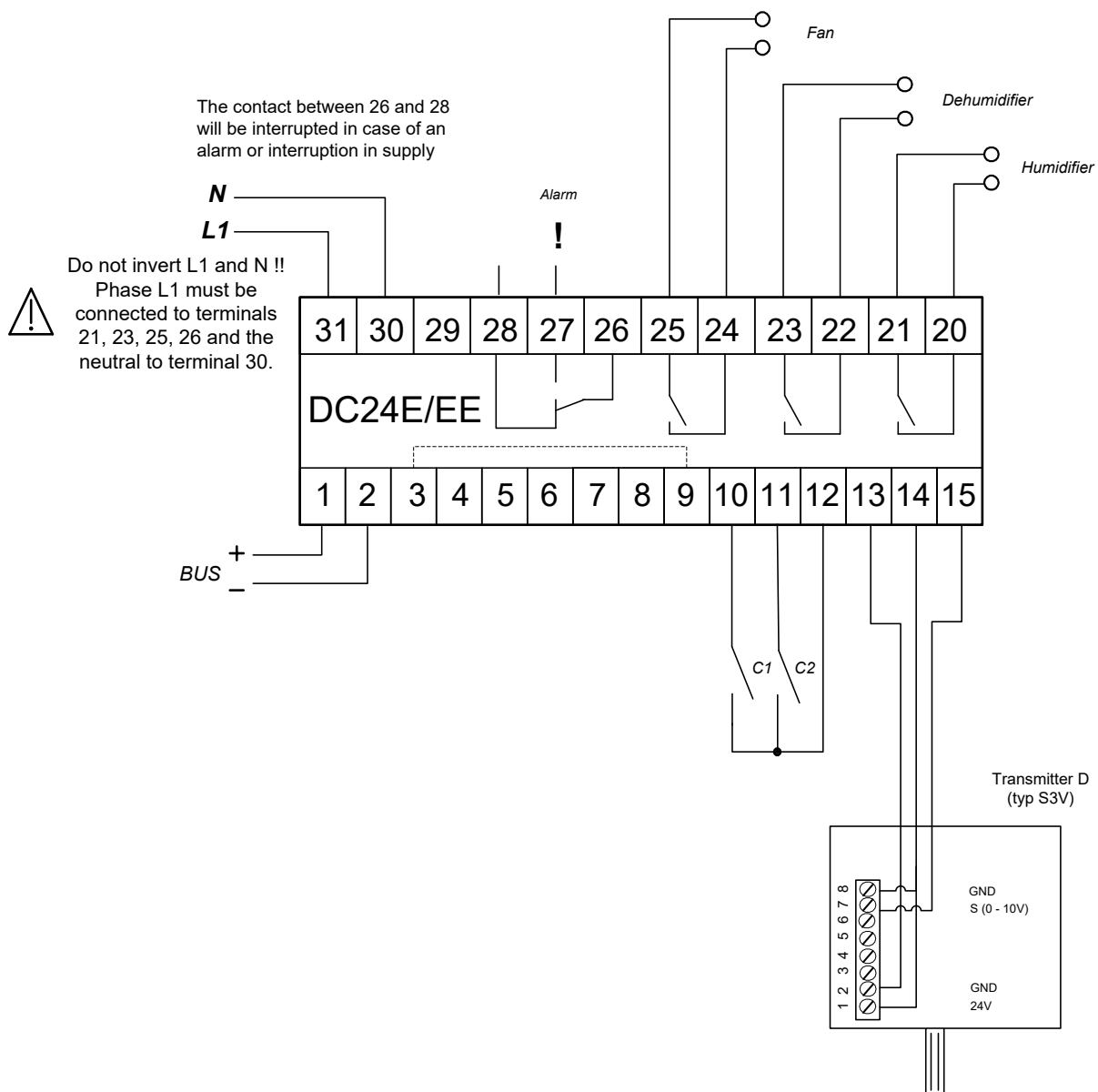
Only available with a DC58 central unit.

This option provides the possibility of modifying the operation of the satellite during periods of reduced activity according to a weekly schedule entered in the DC58 central monitoring unit (e.g. supermarket closing times). Depending on the programming of the “Calendar” menu parameters the satellite can switch off the station or shift the temperature setpoint during closing times.

The standard output for the control of an alarm device can control the light. For this purpose, the parameter function of the alarm output in the schedule menu (TelesWin) must be set to “light control”. With an auxiliary relay connected to this output, the light and the closing of the night curtain of a refrigeration unit can be controlled.



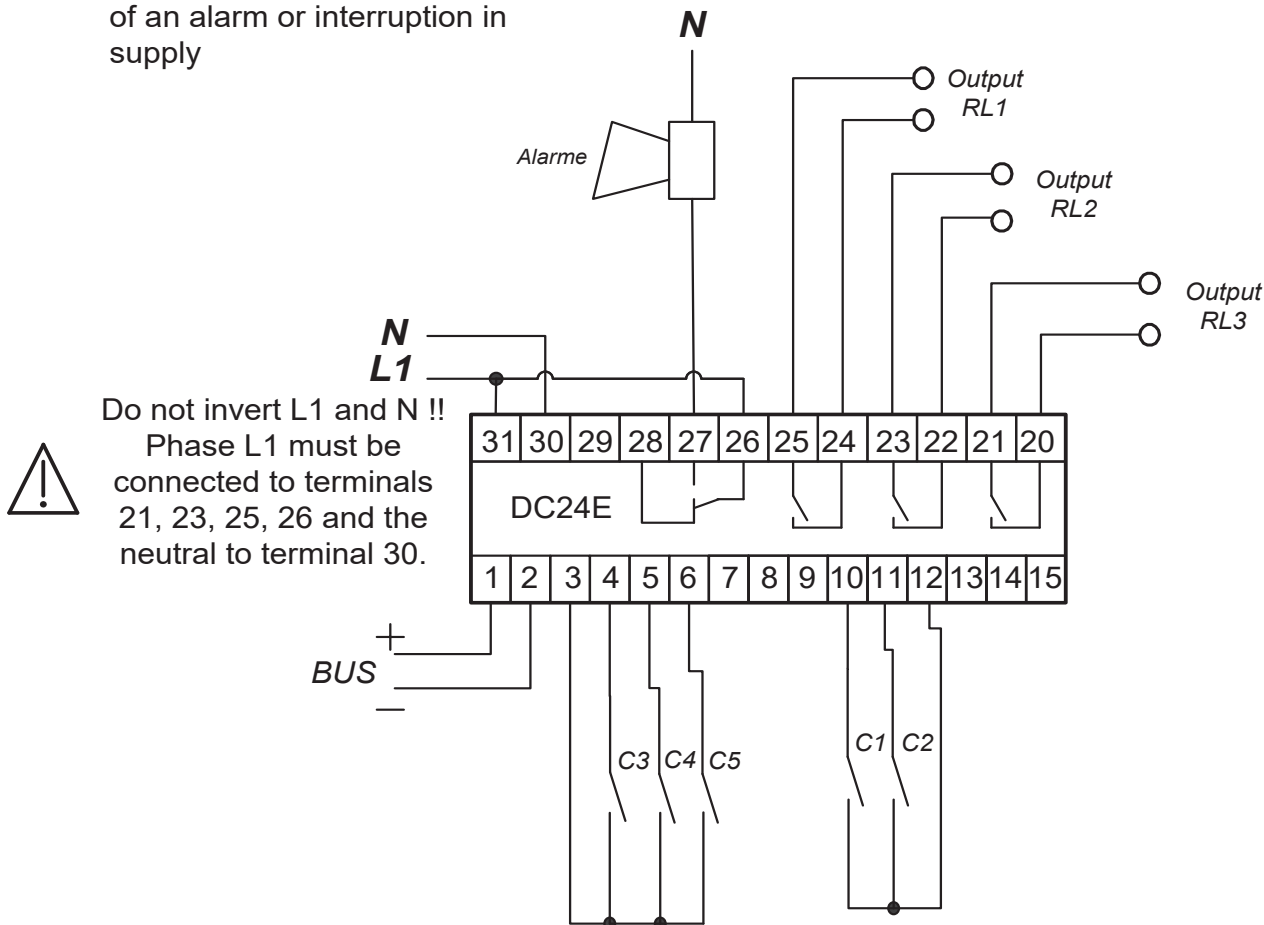
# DC24E for humidity control



## DC24E inputs/outputs mode

In this operating mode, inputs 4 to 6 can be used as digital inputs or as analogue inputs for PT1000 temperature sensors.

The contact between 26 and 28 will be interrupted in case of an alarm or interruption in supply



### About us

Digitel provides high-end control, monitoring and remote management solutions for installations requiring a high degree of performance: refrigeration, heat recovery, controlled atmosphere chamber, growth chamber or special and customized installations.

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