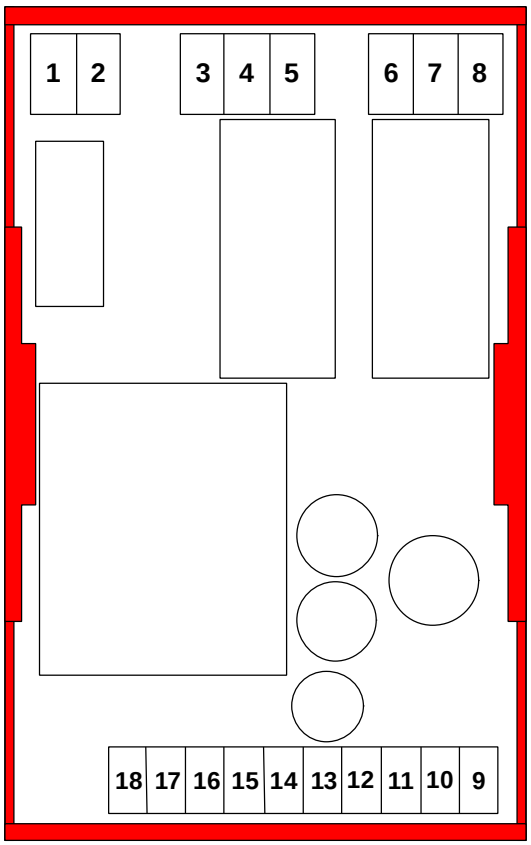
Power supply and relay module for GIA20EB, GIA10N

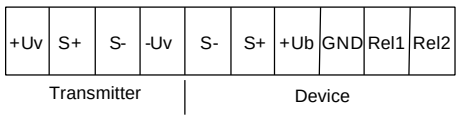
GNR 10

Specification:

Input voltage:	220 - 240 V AC / 50 - 60 Hz
Device supply:	11VDC non-stabilised
Transmitter supply:	18VDC / max. 25mA, electrically insulated
Relay output:	2 volt-free changeover contacts
max. current switched:	10 A
Switching capacity:	For alternating voltage: max. 2400VA (240V, 10A, ohmic load); (cos φ = 0.95) For direct voltage: max. 240W (24V, 10A, ohmic load)
Working temperature:	0 to 50°C
Dimensions:	61 x 96 mm (W x H)
Mounting:	universal foot base can be snapped on to all commercial DIN EN support rails.

Terminal assignment:





Terminal number	max. terminal area	Assignment
1 2	2.5 mm²	Supply voltage: 230V AC / 50Hz
3 4 5	2.5 mm²	Relay 1: normally closed contact Relay 1: input Relay 1: normally open contact
6 7 8	2.5 mm²	Relay 2: normally closed contact Relay 2: input Relay 2: normally open contact
9 10 11 12 13 14	1.0 mm²	Triggering relay 2 Triggering relay 1 Device - supply voltage - Device - supply voltage + Signal + Signal -
15 16 17 18	1.0 mm²	Transmitter supply -Uv Signal - Signal + Transmitter supply +Uv

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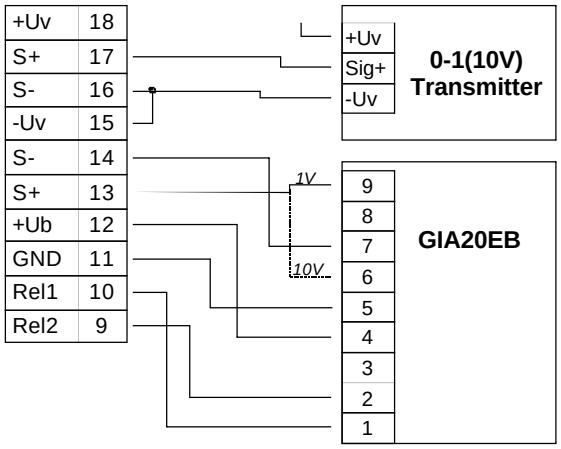
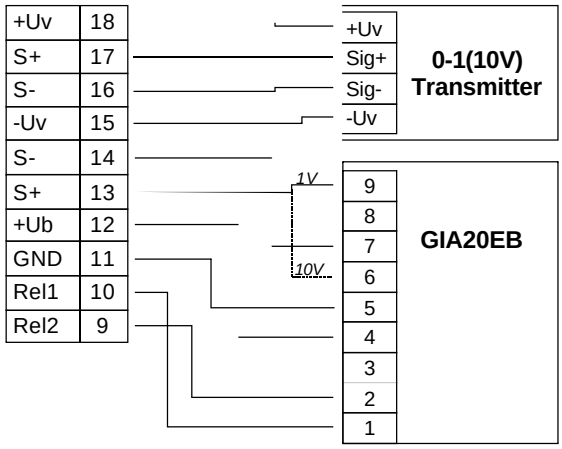
Examples for connections to an GIA20EB:

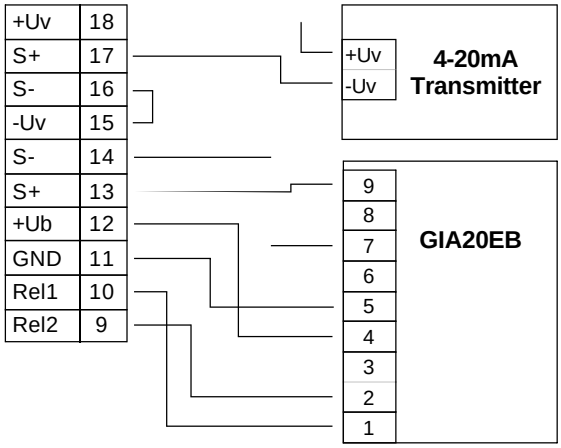
Connection of a 0-1(10)V transmitter (3-wire):



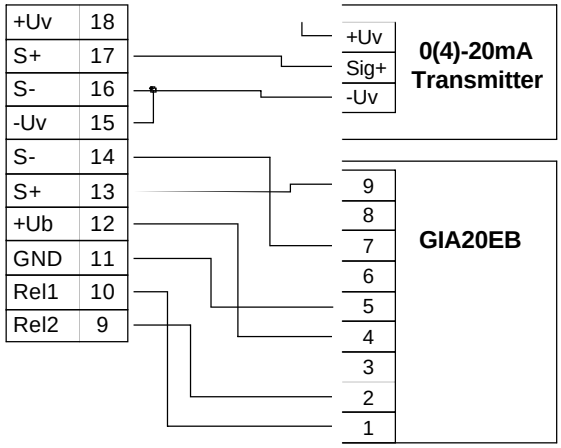
Connection of a 0-1(10)V transmitter (4-wire):



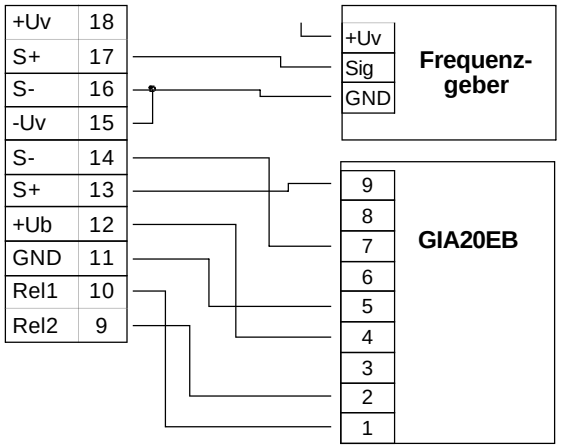
Connection of a 4-20mA transmitter (2-wire):



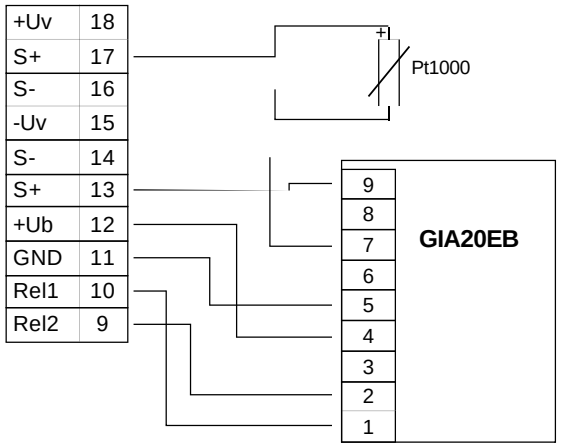
Connection of a 0(4)-20mA transmitter (3-wire):



Connection of a frequency generator (counter etc.):

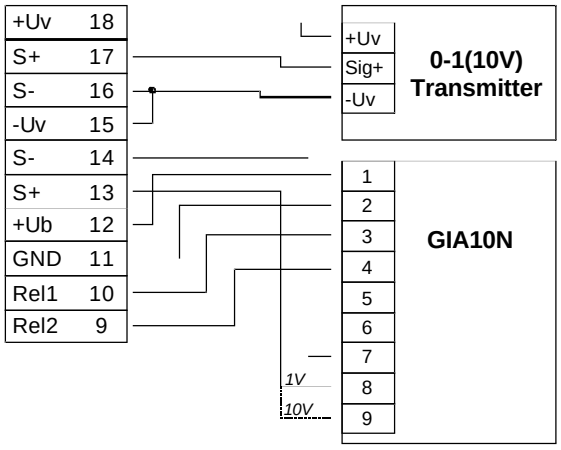


Connection of a resístance sensor (2-wire):

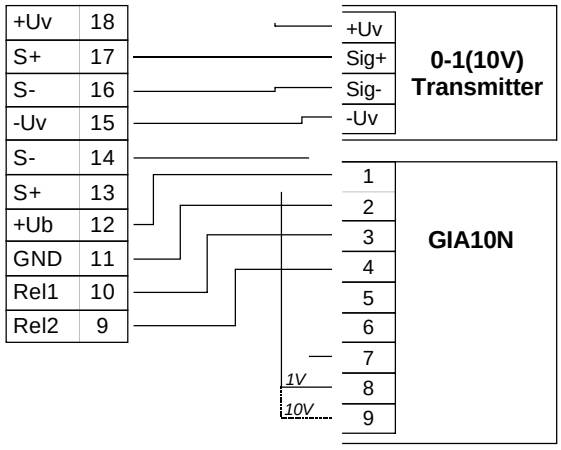


Examples for connections to an GIA10N:

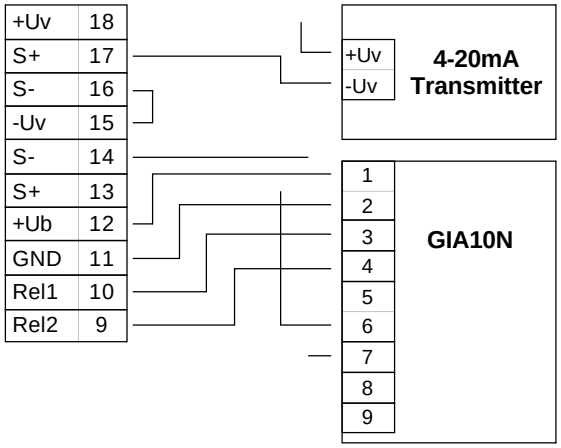
Connection of a 0-1(10)V transmitter (3-wire):



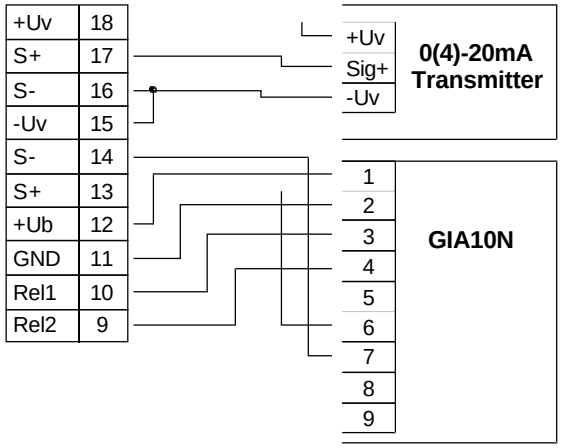
Connection of a 0-1(10)V transmitter (4-wire):



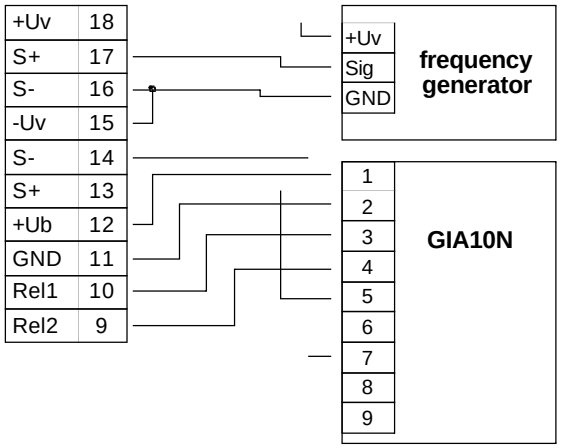
Connection of a 4-20mA transmitter (2-wire):



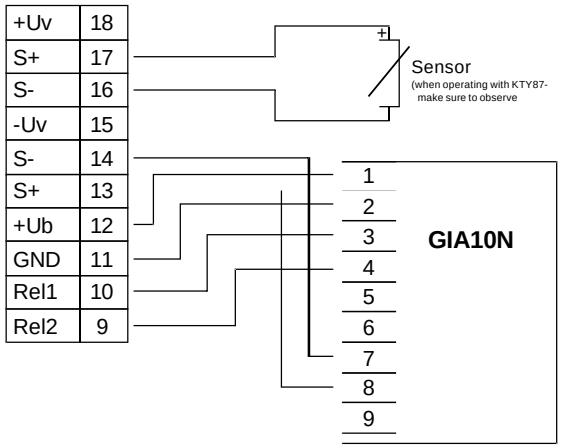
Connection of a 0(4)-20mA transmitter (3-wire):



Connection of a frequency generator (counter etc.):



Connection of a resístance sensor:



Safety instructions:

This device has been designed and tested in accordance with the safety regulations for electronic devices.
However, its trouble-free operation and reliability cannot be guaranteed unless the standard safety measures and special safety advises given in this manual will be adhered to when using the device.

1. Trouble-free operation and reliability of the device can only be guaranteed if the device is not subjected to any other climatic conditions than those stated under "Specification". If the device is transported from a cold to a warm environment condensation may cause in a failure of the function. In such a case make sure the device temperature has adjusted to the ambient temperature before trying a new start-up.
2. General instructions and safety regulations for electric, light and heavy current plants, including domestic safety regulations (e.g. VDE), have to be observed.
3. Electric connection and commissioning of the device must be carried out of trained and skilled personnel.
   Wrong connection may lead to the destruction of the device, in which cas we cannot assume any warranty.
3. If device is to be connected to other devices (e.g. via PC) the circuitry has to be designed most carefully. Internal connection in third party devices (e.g. connection GND and earth) may result in not-permissible voltages impairing or destroying the device or another device connected.
4. If there is a risk whatsoever involved in running it, the device has to be switched off immediately and to be marked accordingly to avoid re-starting.
   Operator safety may be a risk if:
   - there is visible damage to the device
   - the device is not working as specified
   - the device has been stored under unsuitable conditions for a longer time.

   In case of doubt, please return device to manufacturer for repair or maintenance.