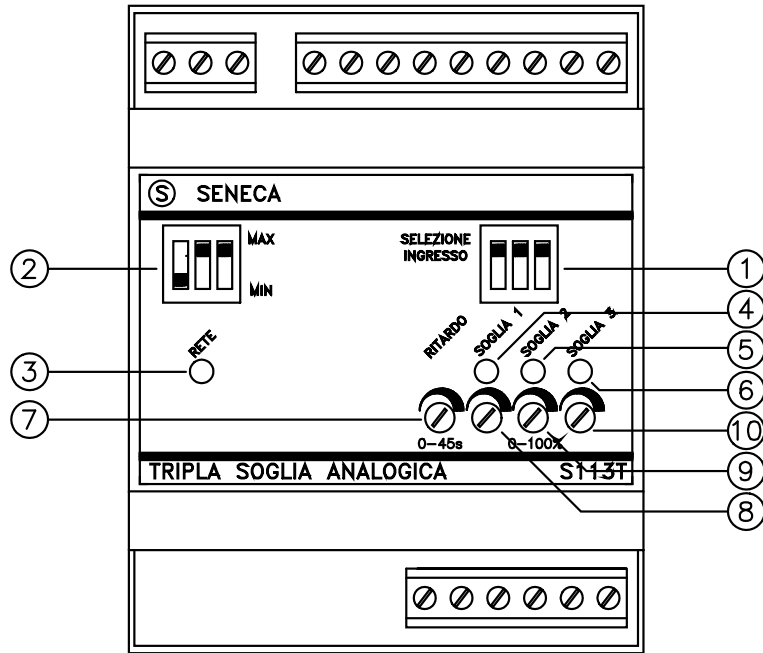Alarm threshold for analog signals, 3 indipendent output relays, in a back panel box 4 modules.
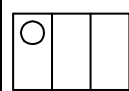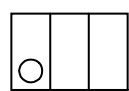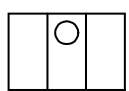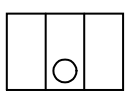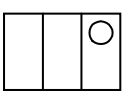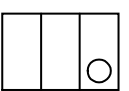

1   DIP-switch to select input

It is possible to select 6 different input in current or in voltage, putting DIP-switch "SELEZIONE INGRESSO" as in table below:

INPUT:	DIP-switch
CURRENT 0 - 20mA	
CURRENT 4 - 20 mA	
VOLTAGE 0 - 5 Vdc	
VOLTAGE 1 - 5 Vdc	
VOLTAGE 0 - 10 Vdc	
VOLTAGE 2 - 10 Vdc	

2 DIP-switch to select alarm

Each alarm's relay can be configured for minimum or maximum operations
Prearranging DIP-switches as shown in the following table:

ALARM 1		ALARM 2		ALARM 3	
MAX	MIN	MAX	MIN	MAX	MIN
⊙	⊙	⊙	⊙	⊙	⊙

3 green LED "RETE" : on if there is power supply

4 red LED "ALLARME 1":

- off	:	if warning not in alarm
- on	:	if warning in alarm during operating time delay --> relay "ALLARME 1" not operating yet
- blinking	:	if warning in alarm after operating time delay --> relay' "ALLARME 1" operating yet

5 red LED "ALLARME 2":

- off	:	if warning not in alarm
- on	:	if warning in alarm during operating time delay --> relay' "ALLARME 2" not operating yet
- blinking	:	if warning in alarm after operating time delay --> relay' "ALLARME 2" operating yet

6 red LED "ALLARME 3":

- off	:	if warning not in alarm
- on	:	if warning in alarm during operating time delay --> relay "ALLARME 3" not operating yet
- blinking	:	if warning in alarm after operating time delay --> relay' "ALLARME 3" operating yet

7 Trimmer "RITARDO" : allows to control time delay at the operation between 0 and 45 seconds.

If more than one alarm are used for the same operating type (min or max) time delay works only on the first alarm, while the nexts will operate istantaneously.
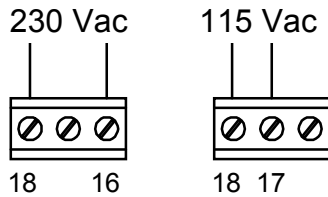
8 Trimmer "ALLARME 1" : allows to control operating value for ALLARME 1 between 0% and 100% of input signal.

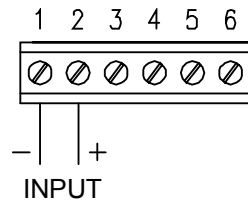## 9 Trimmer "ALLARME 2" : allows to control operating value for ALLARME 2 between 0% and 100% of input signal.

10 Trimmer "ALLARME 3" : allows to control operating value for ALLARME 3 between 0% and 100% of input signal.
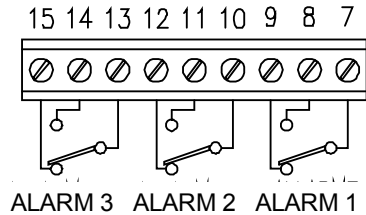
ELECTRICAL CONNECTIONS

POWER S113T-1-ST

230 Vac   115 Vac

18   16   18   17

INPUT

1 2 3 4 5 6

−   +

INPUT

OUTPUTS

15 14 13 12 11 10 9 8 7

ALARM 3   ALARM 2   ALARM 1

Note: Relays are drawn with equipement powered and not in alarm.
So if equipement is not powered the switch of relay is put on the contrary of the wiring

CALIBRATION FOR THRESHOLD'S VALUE

The calibration of threshold's value become easier using a common digital tester prearranged for 10Vdc input (0V corresponds to 0% and 10V corresponds to 100%), connecting it between the clamps :
-   3 (-) and 4 (+) to regulate ALLARME 1's threshold
-   3 (-) and 5 (+) to regulate ALLARME 2's threshold
-   3 (-) and 6 (+)to regulate ALLARME 3's threshold.

EXAMPLE : To calibrate alarm's threshold at 35% input signal, adjust trimmer corresponding alarm you want till you will read 3,5Vdc voltage.

FEATURES

- Power   : S113T-1-ST   115 / 230 Vac (ajustable)   +/- 10%   50 / 60 Hz
- Consumption   : 1,5 VA
- Input   : current 0 - 20 mA , 4 - 20 mA
                   voltage 0 - 5 Vdc , 1 - 5 Vdc , 0 - 10 Vdc , 2 - 10 Vdc
                   adjustable by 3 DIP-switches
- Thresholds   : adjustable between 0% and 100% input signal
- Delay   : adjustable between 0 and 45 seconds approx.
- Hysteresis   : fixed 3%
- Operating   : min or max adjustable indipendently for each relay by DIP-switches
- Relay   : three independent relays each with a SPDT switch, capacity 5A 250Vac (resistive load)
- Temperature   : 0° / + 60° C
- Humidity   : max 90% at 40° C (not condensing)
- Size / Weight : 70 x 90 x 72 mm / 300 g approx.