

## Controller LIM N480D

### Technical description

#### Characteristic

- PID control; ON/OFF
- double LED display 4-digits
- autotuning
- adjustable offset for the sensor
- programmable outputs
- 3 programmable control/alarm outputs
- heating function - ramping: 1x9 segments
- sensor damage detection
- sampling rate: 5 measurements per second
- simple configuration menu
- front panel: IP65, Polycarbonate UL94 V-2
- USB interface for configuration
- 15 bit analog-to-digital transmitter

#### Input

- TC: J, K, T, E, N, R, S, B
- RTD: Pt100

#### Accuracy

- ±0,25% ±1 °C: for J, K, T, E
- ±0,25% ±3 °C: for N, R, S, B
- ±0,2% of range: for Pt100

#### Output I (A)

- relay: NO 1,5 A/240 V AC

#### Output II (B)

- SSR: 12 V/20 mA max.

#### Output III (C)

- relay: NO 1,5 A/240 V AC

#### Output IV (D)

- relay: SPDT 3 A/250 V AC
- current: (0 ÷ 20) mA or (4 ÷ 20) mA, insulated

#### Power source

- (100 ÷ 240) V AC/DC (±10%)
- (12 ÷ 24) V AC/DC
- 6 VA

#### Operating conditions

- temperature: (5 ÷ 50) °C
- humidity: for T ≥ 30 °C RH<sub>max.</sub> = 80%
- T < 30 °C RH<sub>max.</sub> = [80 - (30-T)\*3]%

#### Dimension [mm]

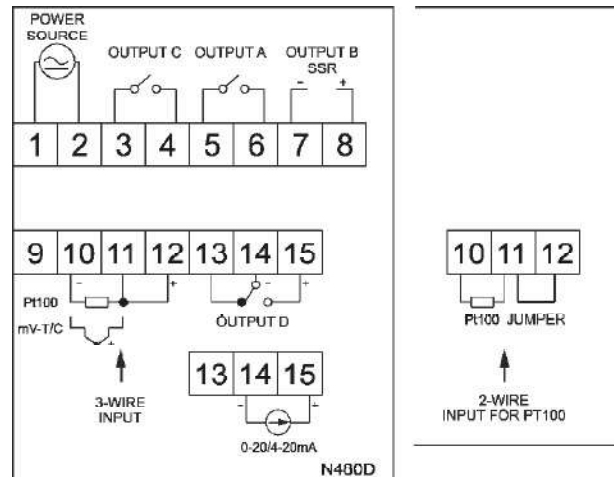
48x48x110; hole: 45,5x45,5

#### Additional functions

- control output: (0 ÷ 20) mA or (4 ÷ 20) mA



Wiring diagram



TEMPERATURE CONTROLLERS

### Ordering code

Controller	LIM N480D - ... - ...
Power source:	
(100 ÷ 240) V AC/DC	4
(12 ÷ 24) AC/DC	5
Output:	
2 relays - (wy: A, B, D) (standard)	2
3 relays - (wy: A, B, C, D) (optional)	3
output 0/(4 ÷ 20) mA - ( wy: A, B, D) (optional)	4

### Ordering example

Controller LIM N480D-4-2