




EAN code - DEVICE:  
DTR: 8595188125017  
DTF: 8595188135924  
DTC: 8595188135931  
To devices is necessary to order additionally - frame in design ELEGANT and external sensor (except DTR)

EAN code - SET:  
DTR, white frame Elegant: 8595188136235  
DTF, white frame Elegant, termosensor TC-3m: 8595188135863  
DTC, white frame Elegant, termosensor TC-3m: 8595188135856

Technical parameters	DTR	DTF	DTC
<b>Supply</b>			
Power supply and tolerance:	AC 230 V ± 15 %		
Consumption, frequency:	1.5 VA, 50 - 60 Hz		
Backup:	rechargeable accumulator LIR2032 (40 mAh) charging time from 0 to 100 %: 3 hours backup time when capacity is 100 %: 72 hours		
<b>Measuring</b>			
Temperature range:	5 to 50 °C (41 to 122 °F)		
Accuracy:	± 0.5 °C (± 32.9 °F)		
Hysteresis:	adjustable 0.5 °C or 1 °C (32.9 or 33.8 °F)		
Temperature sensor:	room (internal)	floor (external)	room (internal) and floor (external)
<b>Adjusting</b>			
Min. temperature cycle:	0.5 °C (32.9 °F)		
Min. time cycle:	10 min.		
Number of programs:	4; pre-set program 1		
Number of events:	2 - 6 in a program		
Offset / calibration:	adjustable ± 0.5 °C (32.9 °F)		
<b>Display</b>			
LCD display:	26 x 24 mm, with backlight (ON or OFF permanently)		
Displaying date:	current time, set / current temperature, day in a week, output status		
Output indication:	red LED and symbol  on LCD		
<b>Output</b>			
Type:	potential-free contact NO - SPST, material of contact - AgNi (Silver Allow)		
Max. loadability:	16 A / 250 V, 4000 VA by AC1		
Contact separation:	galvanic, electrical strength 4 kV		
Mechanical life:	3x10 <sup>7</sup>		
Electrical life:	0.7x10 <sup>5</sup>		
<b>Other information</b>			
Operating position:	-10 °C to 55 °C (14 °F to 131 °F)		
Storing position:	-20 °C to 70 °C (-4 °F to 158 °F)		
Electical strenght:	4 kV		
Mounting:	wiring box with min. depth 30 mm / 1.18 ", Ø min. 65 mm / 2.6 "		
Protection degree:	IP30 in standard conditions*		
Max. cable size (mm <sup>2</sup> ):	solid wire 1x 2.5 / 1.5 with sleeve (AWG 12)		
Dimensions:	84 x 89 x 54.3 mm (3.3 " x 3.5 " x 2.14 ")		
Weight:	120 g (0.26 oz.)		
Standards:	EN 60730-2-9, EN 61812-1, EN 61010-1		

\* see page 41

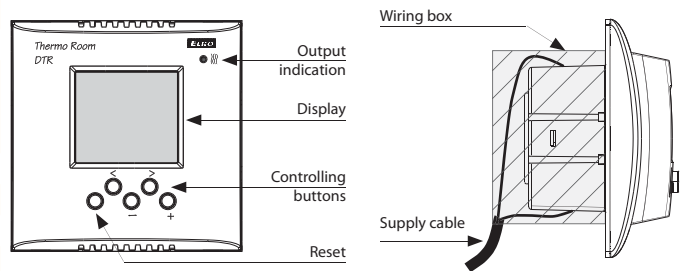
## Design



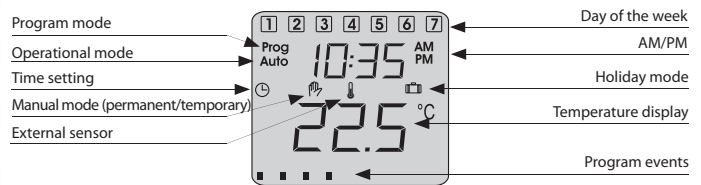
Complete offer of switching devices line ELEGANT can be found in an individual catalogue ELEGANT Home switches, which can be sent to you upon request.

- **DTR - Digital Thermo Room:**
  - Room thermostat with temperature range 5 to 50 °C (41 °F to 122 °F) with a built-in sensor.
- **DTF - Digital Thermo Floor:**
  - Floor thermostat with temperature range 5 to 50 °C (41 °F to 122 °F) with external sensor.
- **DTC - Digital Thermo Combined:**
  - Combined thermostat with room and floor sensors and temperature range 5 to 50 °C (41 °F to 122 °F).
  - Choice of temperature display from internal or external sensors.
  - By program it is possible to choose, which sensor is active and if it should function in serial or in parallel.
- **DTF, DTC**
  - External sensor (TC-3, 3m) is a part of delivery (only ATF/ATC), it is possible to extend its length up to 100 m (328').
  - Monitoring of disconnection or short-circuit of external sensor, fault is displayed.

## Description



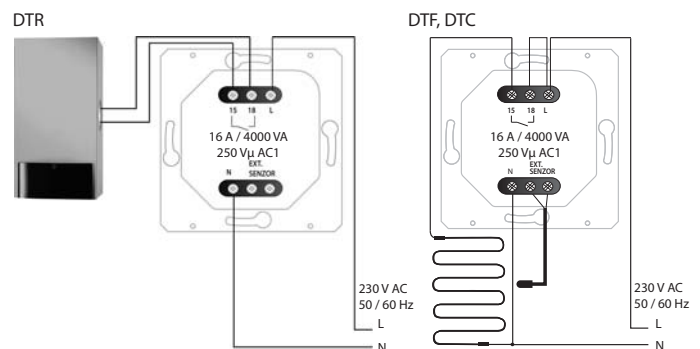
## Description of visual elements on the display



## Other functions of DTR, DTF, DTC

- rechargeable backup battery in case of power failure (e.g. the high tariff of electric heating)
- push-button lock to prevent unwanted manipulation with thermostat
- the possibility of display settings - current or set temperature
- „freezing protection“ in case temperature drops below 5 °C (41 °F) thermostat always switches heating on
- choice of function heating or cooling
- easy and intuitive control by four push-buttons
- automatic shift summer / winter time
- holiday mode - it is possible to set temperature and time from 1 hour to 99 days without any intervention into program settings or turning heating off (suitable in case of planned absence holiday...)
- wall switch buttons in ELEGANT design, wide variety of colors and combination of multiframes






## Connection



Type	Design	Supply voltage	Type of dimmed load						Output unit	Output			Method of phase regulation		Control principal 0-10 V / 1-10V	Designation	Catalogue page
			R resistive el. bulbs, halogen lights)	L inductive (wound transformers)	C capacitive (electronic transformers)	ESL energy-saving fluorescent lamps	LED <sup>1,2</sup> LED lamps	Rated load			ON-DIMMER	OFF-DIMMER					
								R		L			C				
DIM-2	1M-DIN	AC 230 V	●	●	x	x	●	triac	10-500 VA*	10-250 VA	x	●	x	x	Stairway automaton with progressive illumination on / off, adjustable rise time, delay, deceleration, maximum brightness. Dimmer R, L, LED <sup>1</sup> .	42	
DIM-5	1M-DIN	AC 230 V	●	●	x	x	●	triac	10-500 VA*	10-250 VA	x	●	x	x	Universal dimmer R, L, LED <sup>1</sup> , button control.	43	
DIM-14	1M-DIN	AC 230 V	●	●	●	x	●	2x MOSFET	500 VA*	500 VA*	500 VA*	●	●	x	Universal dimmer R, C, L, LED <sup>2</sup> , button control, automatic switching of the dimming mode according to the connected load	48	
DIM-15	1M-DIN	AC 230 V	●	●	●	●	●	2x MOSFET	300 VA	300 VA	300 VA	●	●	x	Universal dimmer R, C, L, ESL, LED <sup>2</sup> , button control,	46	
DIM-6	6M-DIN	AC 230 V	●	●	●	x	●	4x MOSFET	2 000 VA*	2 000 VA*	2 000 VA*	●	●	●	Universal dimmer 2kW R, C, L, LED <sup>2</sup> , power expandable, pushbutton control / 0-10V / 1-10V / potentiometer / INELS bus.	44	
DIM6-3M-P	3M-DIN	AC 230 V	●	●	●	x	●	2x MOSFET	1 000 VA*	1 000 VA*	1 000 VA*	●	●	x	Expansion power module 1kW to DIM-6 dimmer.	45	
SMR-S	BOX	AC 230 V	●	●	x	x	●	triac	10-300 VA*	10-150 VA	x	●	x	x	Like DIM-5, but for mounting under the push-button into the installation box (e.g. KU-68).	49	
SMR-U	BOX	AC 230 V	●	●	●	x	●	2x MOSFET	500 VA*	500 VA*	500 VA*	●	●	x	Like DIM-14, but for mounting under the push-button into the installation box (e.g. KU-68).	49	
SMR-M	BOX	AC 230 V	●	●	●	●	●	2x MOSFET	160 VA	160 VA	160 VA	●	●	x	Like DIM-15, but for mounting under the push-button into the installation box (e.g. KU-68).	46	
LIC-1	1M-DIN	AC 230 V	●	●	●	●	●	2x MOSFET	300 VA*	300 VA*	300 VA*	●	●	x	Universal dimmer R, C, L, ESL, LED <sup>2</sup> , button control, constant light level control.	50	
LIC-2	1M-DIN	AC 100-250 V	x	x	x	x	x	x	x	x	x	x	x	●	Controller for dimmers or electronic ballasts with 0-10 V / 1-10V control, button control, constant light level control.	51	

\* with load over 300 VA is necessary to ensure sufficient cooling

Key to symbols

TYPE OF LOAD (symbols)	bulbs, halogen lamps	low-voltage el.bulbs 12/24V wound transformers	low-voltage el.bulbs 12/24V electronic transformers	ESL dimmable compact fluorescent lamps	Dimmable LED bulbs
	 R	 L	 C	 ESL	 LED <sup>1,2</sup>

Demonstrated symbols are informative

Expansatory:



Dimmer with designated load:

R - resistive

L - inductive

C - capacitive

ESL - energy saving bulbs

LED<sup>1</sup> - dimmable LED bulbs, designed for dimmers with phase-controlled rising edge (triac dimmers)

LED<sup>2</sup> - dimmable LED bulbs designed for dimmers with phase or phase-to-phase phase control (dimmers with MOSFET)

IPxx protection - under normal conditions: normal conditions are understood as such conditions of operating an electrical device, installation and power supply network for which the entire device is designed, produced and installed. Upon these normal conditions of use and upon normal maintenance, all protective devices must be effective throughout the entire expected service life of the product.

Recommendation for mounting modular dimmers: leave a gap of min. 0.5 module (approx. 9 mm / 0.4") on side of the device to ensure better cooling of the device.