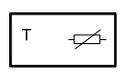
EGT 386, 388, 486, 686, 688: Room temperature sensor, recessed

EGT386F101

EGT486F101

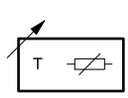
EGT686F101



EGT388F101

EGT388F102

EGT688F101



How energy efficiency is improved

Precise measuring of room temperature for energy-efficient room climate control

Features

- Passive room temperature measurement
- For temperature measurement in dry rooms (e.g. in residential properties, offices and business premises)
- Including frame

Technical data

Parameters		
	Measuring range	-35...70 °C
Time characteristic	Time constant in still air	30 minutes
Ambient conditions		
	Storage and transport temperature	-35...70 °C
	Admissible ambient temperature	-35...70 °C
Construction		
	Housing	Pure white
	Housing material	Thermoplastic
	Frame design	Gira E2
Standards and directives		
	Type of protection	IP20 (EN 60529)
CE conformity according to	RoHS Directive 2011/65/EU	EN 50581

Resistance values / characteristics

i *The tolerance listed below applies only to the corresponding measuring element. The accuracy of the sensor depends on the cable length and the measuring element used.*

Measuring element	Standard	Nominal value at 0 °C	Tolerance at 0 °C
Ni1000	DIN 43760	1000 Ω	±0.4 K
Pt1000	DIN EN 60751	1000 Ω	±0.3 K
NTC 10k	-	10 kΩ at 25 °C	±0.3 K

Overview of types

Type	Measuring element	Adjuster	Weight
EGT386F101	Ni1000	–	53 g
EGT388F101	Ni1000	10 kΩ	83 g
EGT388F102	Ni1000	100 Ω	83 g
EGT486F101	Pt1000	–	83 g
EGT686F101	NTC 10k	–	53 g
EGT688F101	NTC 10k	10 kΩ	83 g

Description of operation

Room temperature sensor for measuring temperature. The room temperature sensor is designed for recessed mounting.
The resistance of the measuring element changes according to the temperature.

EGT 38*, 48*:
The temperature coefficient is positive, which means the resistance increases along with the temperature.

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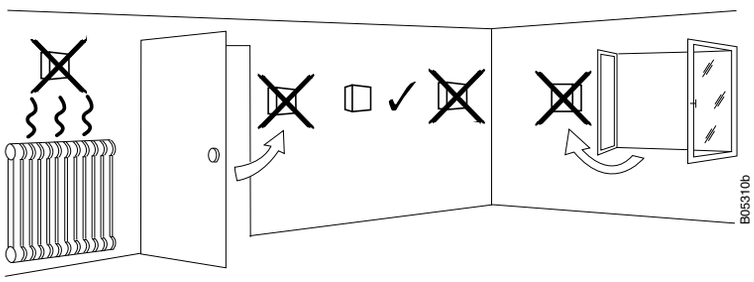
EGT 68*:
The temperature coefficient is negative, which means the resistance decreases as the temperature increases.

Engineering and fitting notes

CAUTION!
Damage to device!
▶Electrical devices may only be installed and fitted by a qualified electrician!

Fitting

The EGT *8* sensor is suitable for recessed mounting. For further information, see the fitting instructions. Incorrect fitting can result in incorrect measuring results. Therefore, always observe the fitting instructions. Cold outer walls and fitting above heat sources (radiators, for example) and right next to doors with draughts must be avoided, as well as direct sunlight. Furnishings, such as curtains, cabinets or shelves, can hinder the flow of room air to the sensor and thus cause discrepancies in the measurements. Heating pipes inside the walls can also affect the measurement.
The end of the installation pipe in the recessed junction box must be sealed so that no draughts occur in the pipe to falsify the measurement.



Intended use

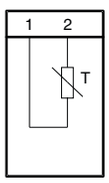
This product is only suitable for the purpose intended by the manufacturer, as described in the “Description of operation” section.
All related product regulations must also be adhered to. Changing or converting the product is not admissible.

Disposal

When disposing of the product, observe the currently applicable local laws.
More information on materials can be found in the Declaration on materials and the environment for this product.

Connection diagram

EGT 386, 486, 686:



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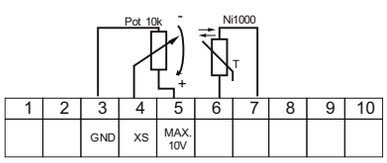

EGT388F102:

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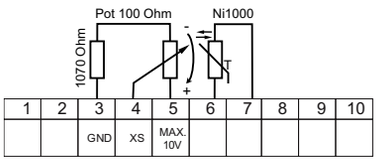

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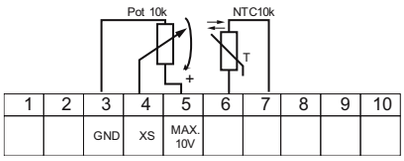
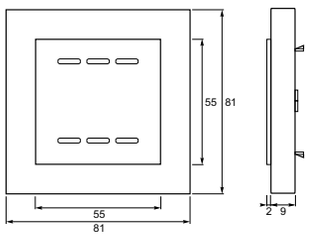


Dimension drawing

[mm]

EGT 386, 486, 686:



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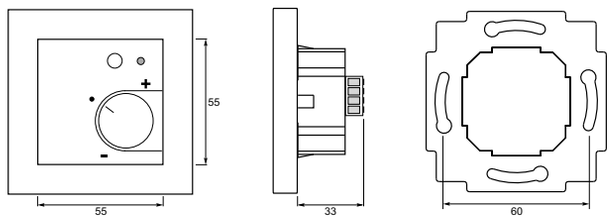

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