

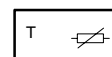
## EGT 346...348: Stem-type temperature sensor

For measuring the temperature in ventilation systems or, with the LW 7 protective tube, in pipes and containers.

Housing cover yellow-black of flame-resistant thermoplastic. Nickel thin-film sensor as per DIN 43760; immersion stem of copper  $\varnothing 6,5$  mm (without protective tube); active length 15 mm; connection terminals for  $2 \times 1,5$  mm<sup>2</sup> of solid or fine-strand wire; cable inlet with cable screw fitting Pg 11



T09124



Y01875

Type	Stem mm	Nominal value at 0°C	Measuring range °C	Weight kg
EGT 346 F021	120	200 $\Omega$	-30...130	0,07
EGT 346 F101	120	1000 $\Omega$	-30...130	0,07
EGT 347 F021	225	200 $\Omega$	-30...130	0,08
EGT 347 F101	225	1000 $\Omega$	-30...130	0,08
EGT 348 F021	450	200 $\Omega$	-30...130	0,10
EGT 348 F101	450	1000 $\Omega$	-30...130	0,10

Resistance values as per Tolerance at 0 °C	DIN 43760 $\pm 0,4$ K	Max. temp. at head	80 °C
Mean temp. coefficient	0,00618 K <sup>-1</sup>	Degree of protection	IP 42 (EN 60529)
Self-warming (in air)	0,25 K/mW	Wiring diagram	<a href="#">A01632</a>
<b>Time characteristic:</b> in air, without prot. Tube	<b>Dead time</b> <b>Time const.</b>	Dimension drawing	<a href="#">M08527</a>
		Fitting instructions	MV 505497
still	18 s      330 s		
moving (3 m/s)	9 s      60 s		
in water, with prot. tube <sup>1)</sup>	<b>Dead time</b> <b>Time const.</b>		
still	7 s      28 s		
moving (0,4 m/s)	6 s      27 s		

### Accessories

- 0364439** . . . Protective tube LW 7, brass; see chapter 39
- 0226811** . . . Protective tube LW 7, inox; see chapter 39
- 0368840 000\*** Holder for fitting stem on wall
- 0368839 000\*** Holder for fitting stem in air duct
- 0313220 001** Heat-conducting paste, in a tube of 20 g
- 0313346 001\*** Module 0-10 V for Ni1000; 24 V~; [MV 505513](#); A08091, IP 00 (IP 42 when fitted in housing) 4 temp. ranges: -50...0 °C; -50...50 °C; 0...50 °C; 0...100 °C

\*) Dimension drawing or wiring diagram are available under the same number

1) With heat-conducting paste

### Operation

The resistance value of the Ni measuring resistor changes with respect to temperature. The temperature coefficient is always positive, i.e. the resistance value increases as the temperature rises. See table of values (DIN 43760) and curve. The elements are exchangeable (within the limits of the prescribed tolerances)

### Further details on the accessories

The module evaluates the signal of an Ni1000 measuring resistor and converts it into an output signal of 0...10 V. The module is fitted in the sensor housing.

Input	temperature sensor Ni1000	Output	0...10 V, load > 5 k $\Omega$
Measuring range can be changed	-50...0 °C -50...50 °C 0...50 °C (factory setting) 0...100 °C	Ambient temperature	-30...80 °C
Error	max. 1 °C zero-point error max. 1 °C span error	Degree of protection	IP 00 (IP 42 fitted in housing)
		Auxiliary supply	24 V~ $\pm$ 20%

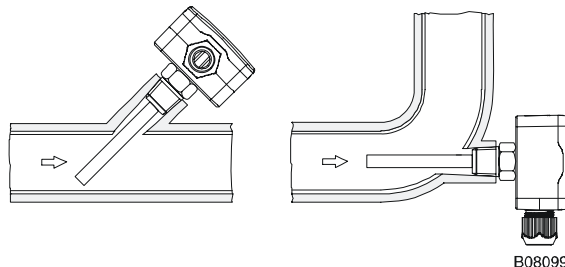
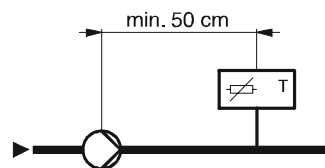
### Additional technical data

Complies with:- EMC directive 2004/108/EC	EN 61000-6-1/ EN 61000-6-2 EN 61000-6-3/ EN 61000-6-4
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**Engineering and fitting note**

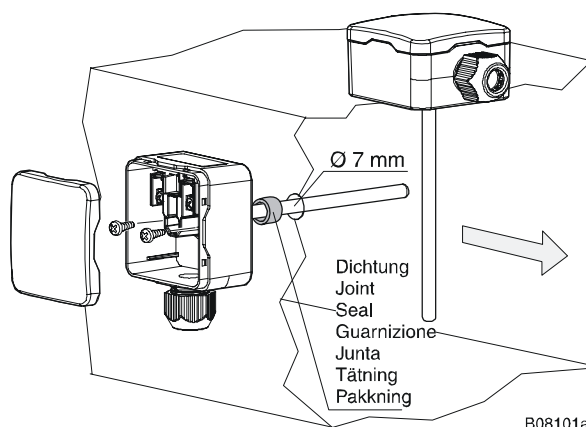
In water:

For use in pipes and containers, the detector must be fitted into a protective tube (LW 7) using the holder. The detector can be adjusted so as to account for different thicknesses of pipe insulation. It should be fitted against the direction of flow.

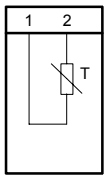


In air ducts:

The detector is fitted directly onto the insulation or onto the wall of the air duct. Using the stem holder (accessory no. 0368839) and the clamping ring (accessory no. 0313282) the insertion depth can be adjusted.

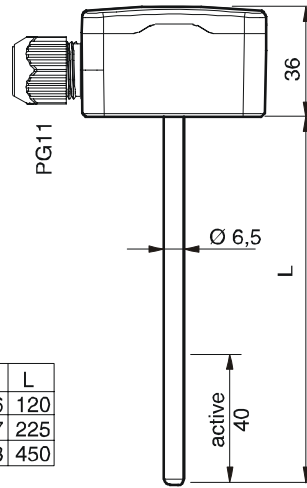
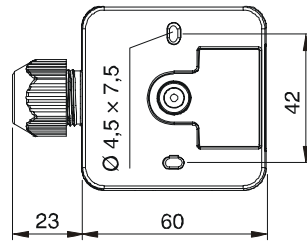


**Wiring diagram**



A01632

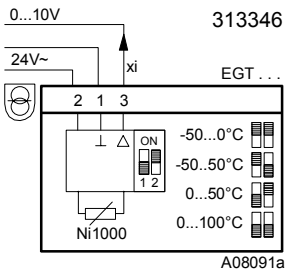
**Dimension drawing**



M08527a

Typ	L
EGT . 46	120
EGT . 47	225
EGT . 48	450

**Accessories**



313346

A08091a

