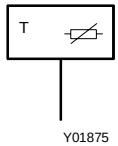
EGT 355: Cable-type temperature detector with immersion stem



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How energy efficiency is improved
Accurate detection of temperature for energy-efficient control of HVAC systems and monitoring energy consumption.

Areas of application
Temperature measurement in rooms, air ducting and on surfaces, also suitable for use in painting businesses. Use in pipelines and tanks possible with optional LW7 protective tubes.

Properties
- No components containing silicone
- Universal, direct integration without protective tube using stainless steel immersion stem
- Passive measured value acquisition
- Especially suitable for direct connection to systems with short distance between controller and sensor
- Stem lengths of 90, 160 and 300 mm

Technical description
- Measurement is effected with a nickel thin-film sensor as per DIN 43760
- Sensor element cast in stainless steel immersion tube ø 6,5 mm
- Active length 20 mm
- Vulcanised silicone connection cable, ø 8 mm, 1,5 m long

Type	Nominal value at 0°C	Measuring range °C	Length of stem mm	Weight kg
EGT 355 F101	1000 Ω	–30...130	300	0,1
EGT 355 F900	1000 Ω	–30...130	90	0,1
EGT 355 F901	1000 Ω	–30...130	160	0,1

Resistance values as per		DIN 43760	Time charact. in water	**Dead time**	**Time const.**
Tolerance at 0 °C		± 0,4 K	still	0,5 s	12 s
Mean temp. coefficient		0,00618 K^{-1}	flowing (0.4 m/s)	0,4 s	9 s
Self-warming (in air)		0,14 K/mW	Degree of protection	IP 42 (EN 60529)	
Resistance to compression		PN 16			
Time characteristic in air	**Dead time**	**Time const.**	Wiring diagram	A01632	
still	5 s	300 s	Dimension drawing	M02130	
moving (3 m/s)	2 s	60 s	Fitting instructions	MV 8268	

Accessories
0312134 000* Brass screw fitting R ¼ (ISO 7/I) for immersion
0312135 000* Stainless-steel screw fitting R ¼ (ISO 7/I) for immersion (DIN material no. 1.4401)

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

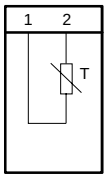
Operation
The resistance value of the Ni measuring resistor changes with respect to temperature. The temperature coefficient is always positive, i.e. the resistance value increases as the temperature rises. See table of values (DIN 43760). The elements are exchangeable (within the limits of the prescribed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

Engineering and fitting notes
The connecting cable of silicon is dry-vulcanised and, therefore, produces few emissions; the detectors' components contain no silicon, thus allowing them to be employed in paint shops

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

Wiring diagram



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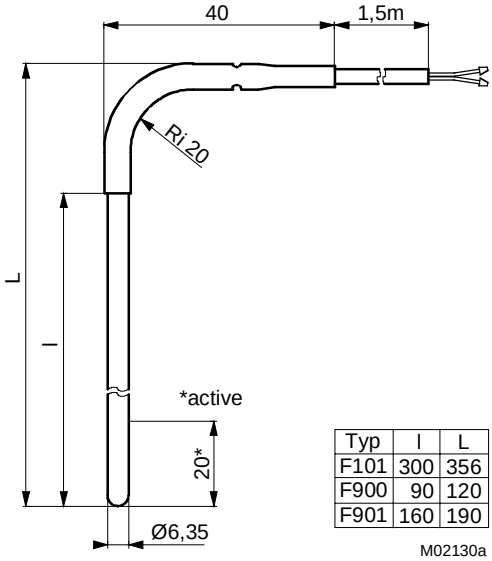
Dimension drawing



Typ	l	L
F101	300	356
F900	90	120
F901	160	190

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Accessories

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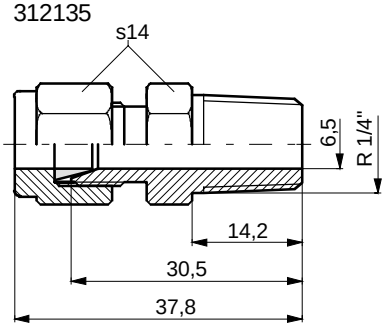
312135



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