ifm electronic

Small but effective: temperature transmitter in compact housing

TOP PRODUCT

Compact temperature transmitter with excellent response time and IO-Link 1.1

- **Space-saving in all installation positions**

- **LED for visualisation of the operating status**

- **Fast response time: T05 / T09 = 1 s / 3 s**

- **Pressure resistant up to 400 bar**

- **Different installation lengths from 25...150 mm**

4...20 mA   IP 68 IP 69 K   IO-Link
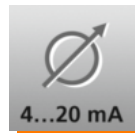
Versatile

The TA type temperature sensor is a universal transmitter with a 4...20 mA current output which can be scaled over the -50 to 150 °C measuring range. Scaling is done simply via the integrated IO-Link interface

Flexible

The compact design, the integrated process connections and a multitude of probe lengths enable particularly simple installation.

Transparent

An integrated LED clearly signals the readiness for operation.
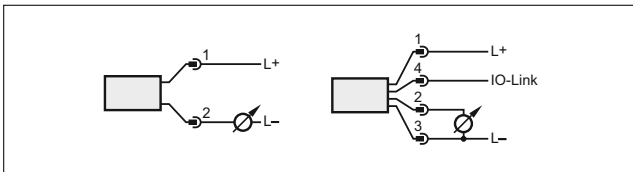
Fast and precise

A high level of accuracy is achieved using a class A accuracy Pt1000 sensor and factory calibration.
In addition, ifm's tried and tested film technology ensures excellent dynamic response times. So this sensor is suited for all highly precise and rapid processes.

Dimensions

TA24

TA21
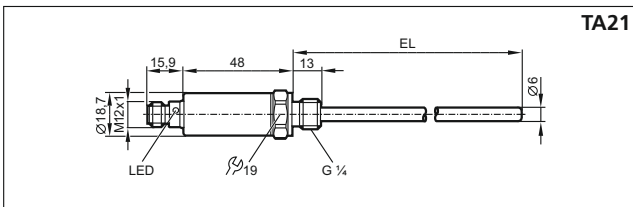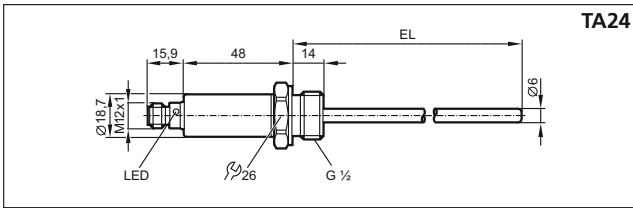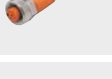
Wiring diagram

Accessories

Type	Description	Order no.
	IO-Link interface for parameter setting and analysis of units with DTM specification, current consumption via USB port: max. 500 mA	E30396
	Memory plug, parameter memory for IO-Link sensors	E30398
	LINERECORDER SENSOR, software for parameter setting and set-up of IO-Link sensors	ZGS210

Connection technology

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC001
	Socket, M12, 5 m black, PUR cable	EVC002
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005

Nominal length [mm]	Pressure resistance [bar]	Order no.
Process connection G ½ **Temperature range (scaled 4…20 mA) -50…150 °C**		
30	300	**TA2405**
50	300	**TA2415**
100	160	**TA2435**
150	160	**TA2445**
Process connection G ¼ **Temperature range (scaled 4…20 mA) -50…150 °C**		
25	400	**TA2105**
50	400	**TA2115**
100	160	**TA2135**
150	160	**TA2145**

Further technical data		
Operating voltage	[V DC]	18…32
Reverse polarity / overload protection		• / •
Measuring element		Pt1000, class A
Response dynamics T05 / T09		1 s / 3 s
Protection		IP 67, IP 68, IP 69K / lll
Measuring range	[°C]	-50…150
Accuracy	[K]	± 0.3 + (± 0.1 % MS)
Ambient temperature	[°C]	-25…80
IO-Link revision		1.1
Materials (wetted parts)		high-grade stainless steel (316L/1.4404)