


## ● Characteristics

0630 - IO-LINK - PROGRAMMABLE -

	- Input RTD Pt100:	3-wire / -200...800 °C
	- Input Type J:	-210...1200 °C
	- Input Type K:	-200...1372 °C
	- Input Type N:	-200...1300 °C
	- Accuracy:	max. 0,02% of nominal range
	- Operating temperature:	-20...+80 °C
	- Configuration:	IO-Link interface
	- Connection:	Terminal screws
	- Protection:	IP20
	- Dimensions:	Ø45x23 mm
- Casing:	Synthetics PA66	

## ● Technical Data

### Eingang

RTD Pt100:	Sensor:	1x RTD Pt100
	Connection:	3-wire
	Nominal range:	-200...800 °C
	Sensor current:	0,9 mA
Thermocouple:		
Type J:	Measuring range:	-210...1200 °C
Type K:	Measuring range:	-200...1372 °C
Type N:	Measuring range:	-200...1300 °C

### Output

Interface:	IO-Link
Signal level:	0/24 V (as per IO-Link specification)

### Environmental Conditions

Temperature:	Operating range:	-20...+80 °C
	Storage:	-40...+85 °C
Air humidity:	30...90% rH (40 °C, no condensation)	

### Performance Parameters

Measuring amplifier:	Accuracy:	max. 0,02% of range + sensor error
	Resolution:	16 bit
	Filter setting:	25 s
	Measuring rate:	10 measurements/s
	Configuration:	Via software (IO-Link communication)
	Transient response:	Temperature linear
	Switch-on delay:	<5 s
	Response time:	20 ms

## ● Applications

The transmitter is suitable in all areas where temperatures have to be measured. It can be operated either with a 3-wire Pt100 RTD or with a thermocouple. The TH-TIO transmitter can be used in a wide range of applications and can be configured via IO-Link.



## ● Technical Data (Continued)

### Performance Parameters (Continued)

Isolation voltage: 1 kV AC

### Supply

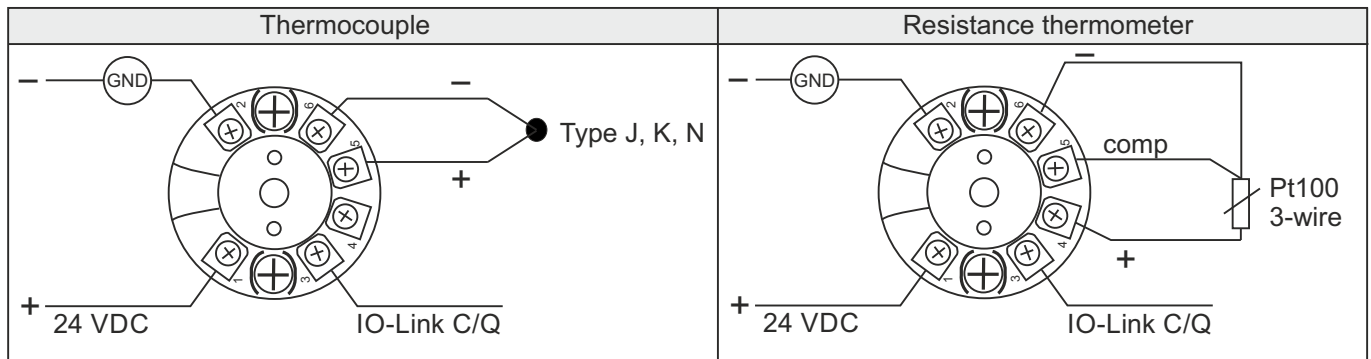
Voltage: 24 VDC

Reverse voltage protection: Yes (no function, no damage)

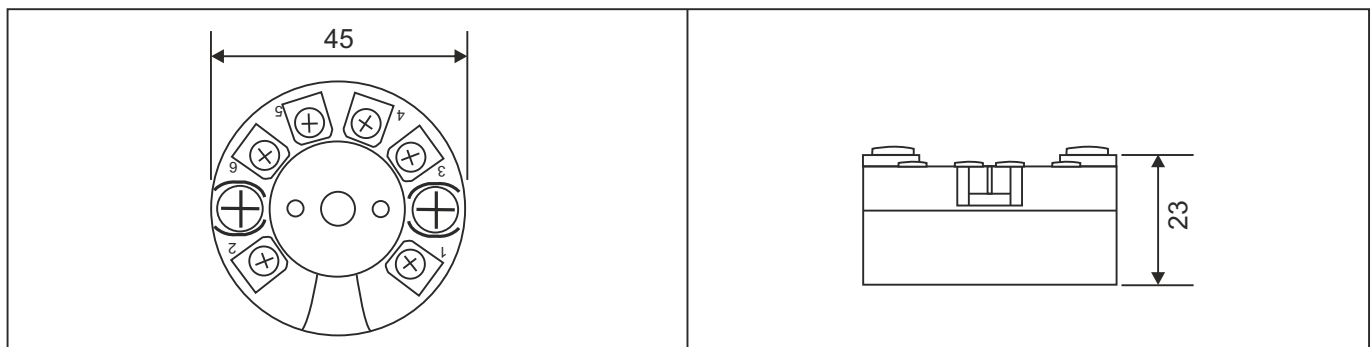
### Mechanics

Casing: Dimensions: Ø45x23 mm  
 Material: Plastic black (PA66)  
 Protection class: IP20  
 Electrical connection: Terminal screws  
 Conductor cross section: 1 mm<sup>2</sup> (recommended)  
 Stripping length: 8 mm (recommended)  
 Weight (not potted): approx. 35 g  
 EMC Conformity: EN 61000-6-4, EN 61000-6-2

## ● Electrical Connection



## ● Dimensions (in mm)



## ● Order Code

		T	I	X	X	X	X	X
<b>Input:</b>	Please specify			4				
<b>Output:</b>	IO-Link				1			
<b>Casing:</b>	Standard (no terminal head)					0		
	Diecast aluminum terminal head B						1	
<b>Configuration:</b>	Customized (please specify) <sup>1</sup>							0
<b>Special Model:</b>	No							0
	Yes (please specify)							1

1) The factory setting is an unconfigured transmitter.