


● 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
	- Interface:	IO-Link
	- 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)

Supply

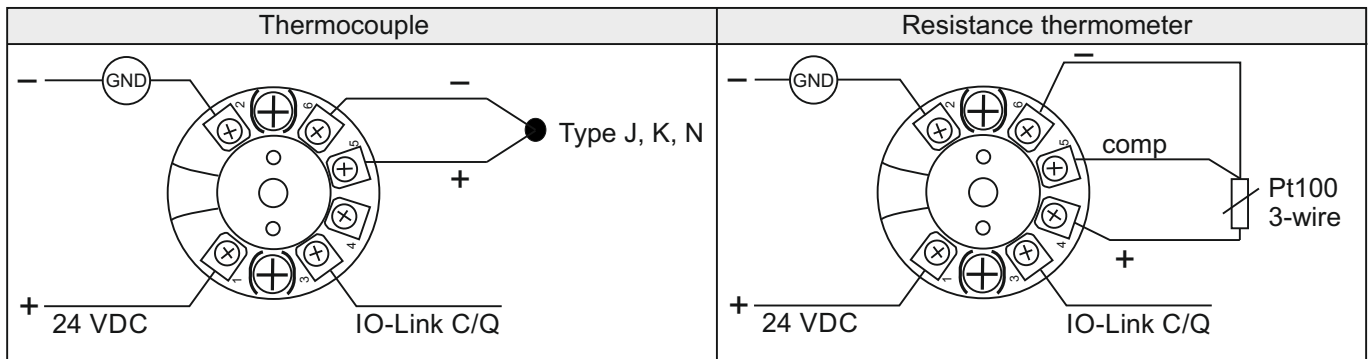
Voltage:	24 VDC	
Current:	Standard:	<30 mA
	Switching (SIO):	max. 100 mA
	Total current:	max. 130 mA

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

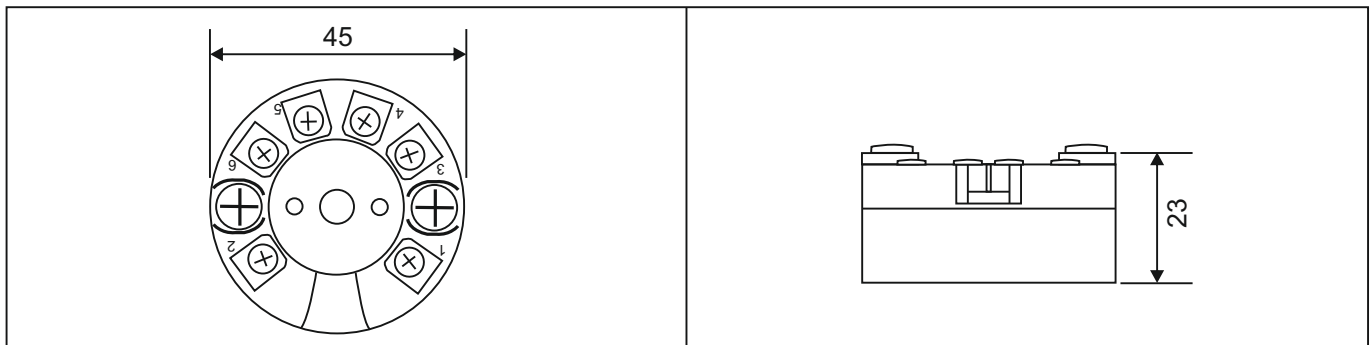
Mechanics

Casing:	Dimensions:	Ø45x23 mm
	Material:	Plastic black (Pa66)
	Isolation voltage:	1 kV AC
Protection class:	IP20	
Electrical connection:	Terminal screws	
	Conductor cross section: 1 mm ² (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
Input:	Please specify						4	
Output:	IO-Link							1
Casing:	Standard (no terminal head)							0
	Diecast aluminum terminal head B							1
Configuration:	Customized (please specify) ¹							0
Special Model:	No							0
	Yes (please specify)							1

1) The factory setting: 3-wire Pt100 (-200...800 °C)