Produktinformation

Resistance Transmitter RT500



- Measuring range 0..50 Ω up to 100 kΩ
- Processor technology with 12 Bit AD/DA-converter
- Teach-in programming for start- and end-value
- Increase or decrease output characteristic programmable
- Operation mode indicated by use of a 2-color LED

Characteristics

RT500 transmitter converts a resistance- or potentiometer signal into industry standard signals. Initial and final value may be in the range of 0..100 kOhm. Easy programming by means of Teach-in. The measuring range will be selected automatically. The input circuit is designed in 3-wire technology and can provide compensation of the line resistance. The linear output signal is generated between minimum and maximum input resistance.

Technical data

Power supply	
Supply voltage :	85265 V AC or 1030 V AC/DC
Frequency :	4763 Hz
Power consumption : Operating	< 3 VA
temperature :	-10+50 °C
Conformity :	CE
Input	
Measuring range :	Rmax: 50 Ω100 kΩ,
	Condition: $\Delta R \ge 0.5 R_{max}$
	characteristic curve increasing or decreasing
Solution :	6003000 Digit
	(depends on measuring range)
Sampling frequency :	250 Hz real-time processing
Line resistance :	max. 10 Ω, line compensation
	in 3-wire-circuits
Outputs	
Current :	0/420 mA, selectable, burden ≤ 1 kΩ
Voltage :	0/210 V, selectable, load max. 15 mA
	short-circuit-proof
	(parallel with current output max. 5 mA)
Attention! No isolation	between in- and output.
Rise time (T90) :	< 8 ms
Accuracy :	<0,7 % (typ. <0,25 %)
Case :	Polycarbonate, UL94V-0, TH35
Weight :	approx. 200 g
Connection :	screw terminals, max. 2.5 mm ²
Protection class :	case IP30, terminals IP20 acc. to BGV A3





Connection diagram



Ordering code



Г500 - ____

1.	Measuring range	
	40	R _{max} in range 50 Ω up to 100 k Ω
		programmable (see examples)
2.	Supply voltage	
	0	85265 V AC
	5	1030 V AC/DC

Examples:

i.) Range 15..90 Ω

2.) Range 0..1000 Ω

3.) Range 100..200 Ω

Attention!

Minimal span 0.5 x Rmax

