

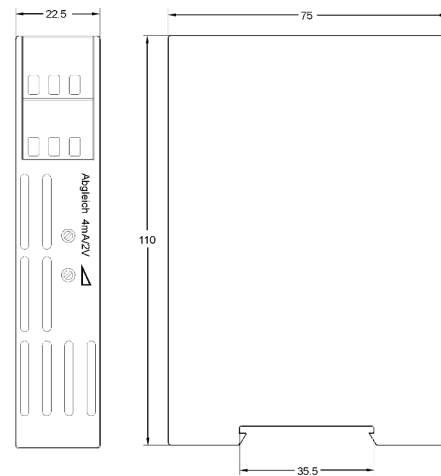
Produktinformation

Isolating Signal Converter TV500 / ST500

With integr. transmitter supply



Dimensions



DIN rail mounting TS35

Characteristics

TV500 isolating signal converter can be used to isolate and convert field signals 0/4..20 mA or 0/2..10 V DC into industry standard signals for process control systems. The ST500 provides a fully floating isolated transmitter supply.

Technical data

Power supply

Supply voltage : 100..265 V AC or 10.8..30 V AC/DC
 Frequency AC : 47..63 Hz
 Power consumption: < 3.5 VA
 Operating temperature : -10..+60 °C
 CE-conformity : EN 61326-1:2013
 EN 60664-1:2007

Inputs

Current : 0/4..20 mA selectable, $R_i = 25 \Omega$
 overload max. 100 mA
 Voltage : 0/2..10 V DC selectable,
 R_i approx. 40 k Ω , overload max. 100 V

Span and start value

4 mA/2 V : adjustable approx. $\pm 5 \%$
 Transmitter supply : approx 24 V DC, R_i approx. 150 Ω ,
 (only ST500) short-circuit current approx. 35 mA

Outputs

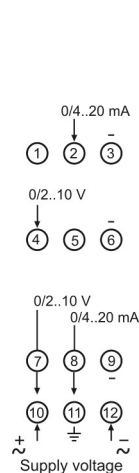
Current : 0/4..20 mA selectable,
 burden max. 1 k Ω
 Voltage : 0/2..10 V selectable,
 load max. 15 mA, short-circuit-proof
 (parallel with the current output max. 5 mA)
 Rise time (T_{90}) : model 10: < 20 ms, max. frequency 18 Hz
 model 11: < 100 μ s, max. frequency 1 kHz
 Accuracy : $\leq 0.2 \%$
 (single range adjustment $\leq 0.1 \%$)

Case

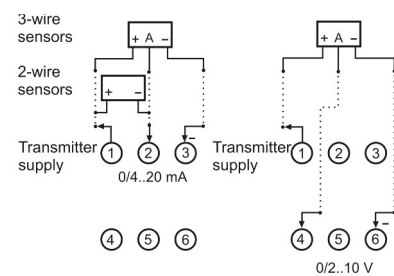
Design : standard case, Makrolon 8020 UL94V-1
 acc. to DIN EN 60715
 Weight : approx. 200 g
 Connection : screw terminals, max. 2.5 mm²
 Protection class : case IP30,
 terminals IP20 acc. to BGV A3

Connection diagram

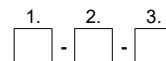
Signal converter TV500



Power feed signal converter ST500



Ordering code



1. Model	
TV500	signal converter
ST500	power feed signal converter
2. Measuring range	
10	inputs 0/4..20 mA and 0/2..10 V outputs 0/4..20 mA and 0/2..10 V
11	as 10, but rise time $T_{90} < 100 \mu$ s
3. Supply voltage	
0	100..265 V AC
5	10.8..30 V AC/DC