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Isolating Converters

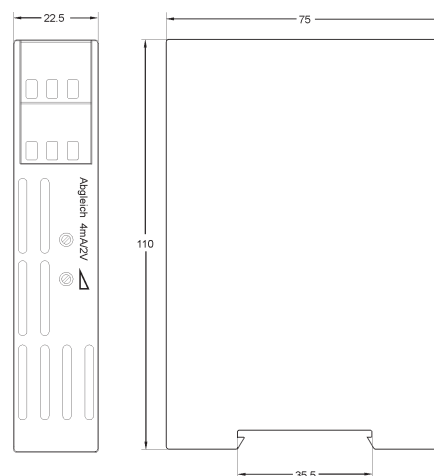
Product Information

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, Ri = 25 Ω
overload max. 100 mA
Voltage : 0/2..10 V DC selectable,
Ri approx. 40 kΩ, overload max. 100 V

Span and start value

4 mA/2 V : adjustable approx. ± 5 %
Transmitter supply : approx 24 V DC, Ri approx. 150 Ω,
short-circuit current approx. 35 mA

Outputs

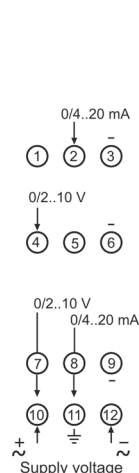
Current : 0/4..20 mA selectable,
burden max. 1 kΩ
Voltage : 0/2..10 V selectable,
load max. 15 mA, short-circuit-proof
(parallel with the current output max. 5 mA)
Rise time (T₉₀) : model 10: < 20 ms, max. frequency 18 Hz
model 11: < 100 μs, max. frequency 1 kHz
Accuracy : ≤ 0.2 %
(single range adjustment ≤ 0.1 %)

Case

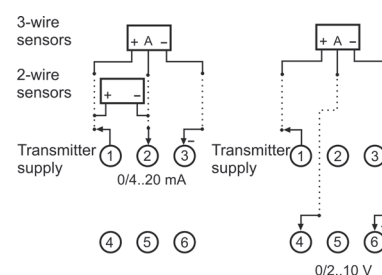
Design : standard case, Makrolon 8020 UL94V-1
acc. to DIN EN 60715
Weight : approx. 200 g
Connection : screw terminals, max. 2.5 mm²
Protection class : case IP30,
terminals IP20 acc. to BGV A3

Connection diagram

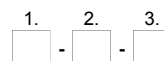
Signal converter TV500



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 μs
3. Supply voltage	
0	100..265 V AC
5	10.8..30 V AC/DC