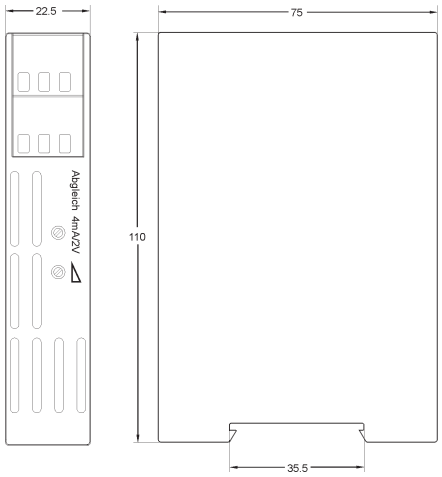
Isolating Signal Converter TV500 / ST500

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 (only ST500)	:	approx 24 V DC, Ri approx. 150 Ω, short-circuit current approx. 35 mA

Outputs

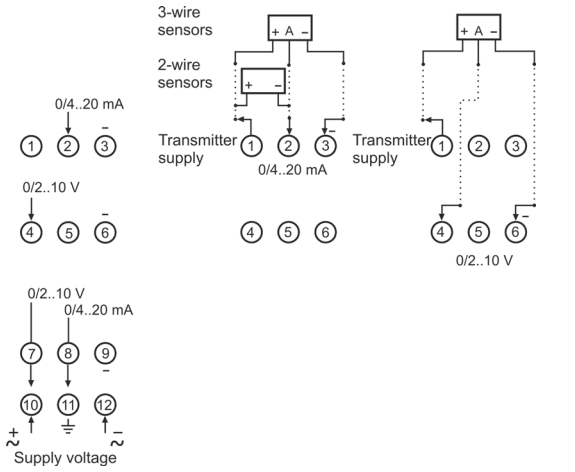
Current	:	0/4..20 mA selectable, burden max. 1 kΩ
Voltage	:	0/2..10 V selectable, load max. 15 mA, short-circuit-proof (parallel with the current output max. 5 mA)
Rise time (T_{90})	:	model 10: < 20 ms, max. frequency 18 Hz model 11: < 100 µs, max. frequency 1 kHz
Accuracy	:	≤ 0.2 % (single range adjustment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

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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