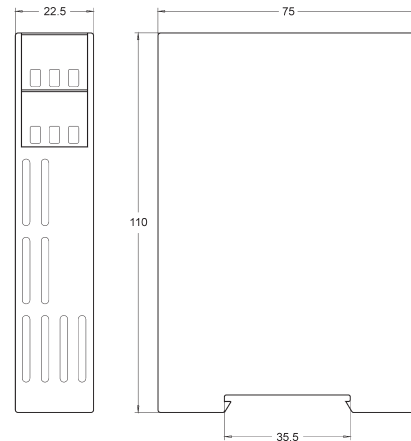


Product Information

# Isolating Signal Converter TV500P



## Dimensions



DIN rail mounting TS35

## Characteristics

Loop powered signal converter series TV500P are highly compact devices to isolate and adapt standard signals to active inputs of SPC- and DC-systems.  
 The device is loop powered via the 4-20 mA output.

## Technical data

### Power supply

- Supply voltage : 14...30 V DC (loop voltage)
- Operating temperature : -10...+50 °C
- CE-conformity : EN 61326-1:2013; EN 60664-1:2007

### Inputs

- Current : 0..20, 4..20 mA or ± 20 mA  
 $R_i = 43 \Omega$ , overload max. 100 mA
- Voltage : 0..10, 2..10 V or ±10 V  
 $R_i = 160 \text{ k}\Omega$ , overload max. 100 V
- End value 20 mA : adjustable ± 5 %
- Accuracy : < 0.2 %, (single range adjustment < 0.1 %)

### Outputs

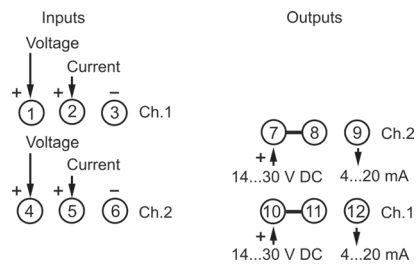
- Current : 4..20 mA,
- Burden :  $R_{max} = (U_B - 14 \text{ V}) \div 20 \text{ mA}$
- Rise time  $T_{90}$  : < 70 ms

### Note!

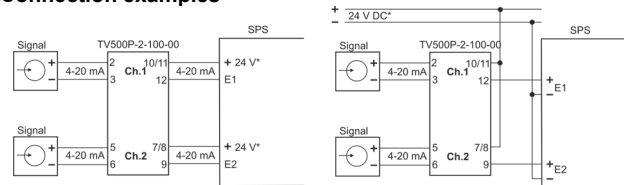
Output switches to 22 mA, if the input signal fall below -34 % or exceeds +34 % of the input signal.

- Case** : standard case polycarbonate 8020 UL94V-1 acc. to DIN EN 60715:2001-09
- Weight** : approx. 200 g
- Electrical connection** : screw terminals, max. 2.5 mm<sup>2</sup>
- Protection class** : case IP30, terminals IP20, acc. to BGV A3

## Connection diagram



## Connection examples



## Ordering code

TV500P -  1.  2.  3.  4.  5.

<b>1. No. of channels</b>	
1	1 channel
2	2 channels
<b>2. Inputs</b>	
0	0..20 mA and 0..10 V DC
1	4..20 mA and 2..10 V DC
2	± 20 mA and ± 10 V DC
<b>3. Output</b>	
0	4..20 mA passive
<b>4. Characteristic curve</b>	
0	increasing
1	decreasing (inverted)
<b>5. Options</b>	
00	without option