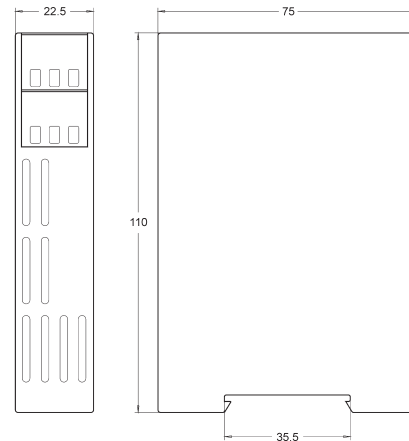


# Isolating Signal Converter TV500P



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

### Outputs

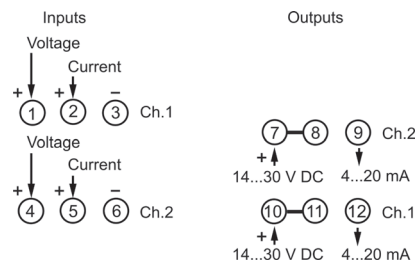
Current : 4..20 mA,  
Burden :  $R_{\text{max}} = (U_B - 14 \text{ V}) \div 20 \text{ mA}$   
Rise time  $T_{90}$  :  $< 70 \text{ ms}$

### Note!

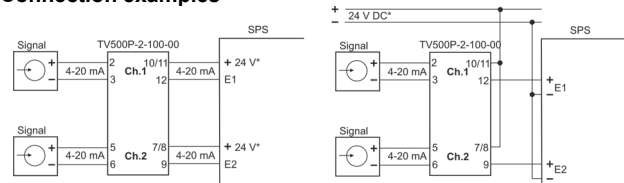
Output switches to 22 mA, if the input signal fall below -34 % or exceeds +34 % of the input signal.

**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	$\pm 20$ mA and $\pm 10$ 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