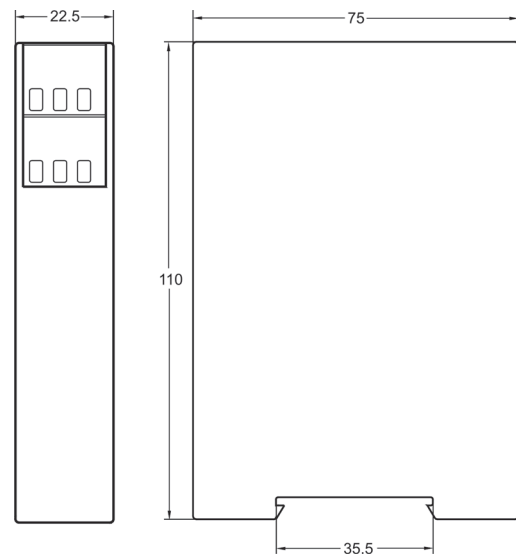


# Isolating Signal Converter TW500

Loop powered 0(4)..20 mA



## Dimensions



DIN rail mounting TS35

## Characteristics

Loop powered signal isolator TW 500 are highly compact devices to isolate DC-current signals 0(4)..20 mA without power supply. Up to 3 channels are deliverable in one 22.5 mm DIN rail housing.

## Technical data

### Input

Current	: 0(4)..20 mA DC
Max. current	: 100 mA
Max. voltage	: 27 V DC
Voltage drop	: < 2.7 V ( $I \leq 20$ mA)
Test voltage	: 4 kV DC input / output
Rated voltage	: 630 V acc. to VDE 0110 group 2
Operating temperature	: -20..+60 °C
CE-conformity	: EN 61326-1:2013 EN 60664-1:2007

### Output

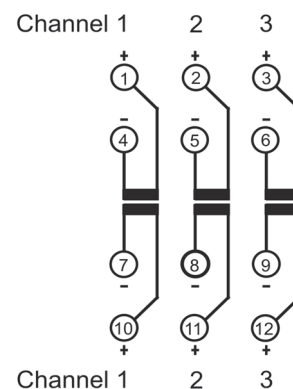
Current	: 0(4)..20 mA
Max. current	: max. input current
Burden	: < 1200 $\Omega$ ( $I \leq 20$ mA)
Rise time ( $T_{90}$ )	: < 30 ms
Accuracy	: < 0.1 %
Burden error	: < 0.0008 %/ $\Omega$
Temperature coefficient	: < 0.001 %/°C
Ripple	: < 0.2 %

**Case** : standard case polycarbonate 8020 UL94V-1 acc. to DIN EN 60715:2001-09, DIN rail TS35

**Weight** : approx. 140 g  
**Connection** : screw terminals, max. 2.5 mm<sup>2</sup>  
**Protection class** : case IP30, terminals IP20, acc. to BGV A3

## Connection diagram

Input 0(4) ... 20mA DC



Output 0(4) ... 20mA DC

Note:  
Not used outputs must be shorted by a link.

## Ordering code

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1.	Model
1	1-channel
2	2-channels
3	3-channels