

## Type STR-01

Isolation and Measuring Transducer



### APPLICATION

For the conversion of a standard electrical signal into another standard signal or / and electric isolation.

### DESCRIPTION

The STR isolation transducer uses the terminals A1 and A2 for connection to 24V AC/DC (UC). The green LED indicates the connection to the power supply, which must be continuously connected to the transducer.

### FUNCTION

The STR transducer acquires a standard signal 0(4) ... 20mA or 0(2) ... 10V DC and converts it into an independent current or voltage signal. The measuring circuit is electrically isolated from the power supply. The desired configuration is selected with the DIP switches on the relay's front panel. **The STR isolation transformer has three-way isolation.**

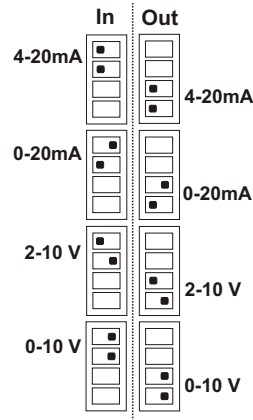
### OPTION

Other supply voltages or input, output signals upon request.

### Order Code

**STR-01 Transducer Power Vers. 24V UC**  
**Art.No. FP-00322**

### DIP switch adjustments



### APPROVALS



### MOUNTING

Snap-on mounting using a standard DIN rail EN 50022. The unit is designed to allow side-by-side mounting, with an ambient temperature of < 60°C.

## TECHNICAL DATA

### Supply

power supply : 24V AC/DC +/-15  
 frequency range : 50 ... 60 / 0Hz  
 power consumption : 2VA  
 operating mode : continuous  
 isolation voltage : 1kV DC

### Input/Output

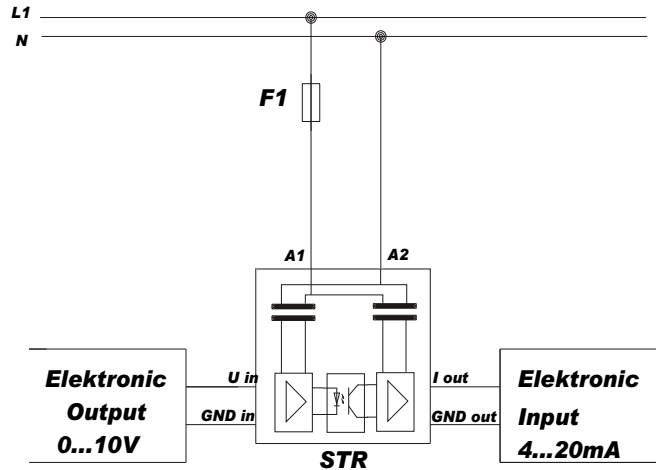
measuring accuracy : 0,5% over the entire  
 temperatur and voltage range  
 input : 0 ( 4 ) ... 20mA DC  
 @ 237 Ohm  
 0 ( 2 ) ... 10V DC  
 @ 20kOhm  
 overload capability : 100% constant, 500% for 1s  
 output : 0 ( 4 ) ... 20mA  
 @ max. 750 Ohm  
 0 ( 2 ) ... 10V  
 @ min. 1kOhm  
 correction time : < 0,7 s  
 isolation voltage I/O : 3,75kV

**Operation indicator :** LED, green

### General data

ambient temperatur : 0 ... + 60°C  
 climatic resistance : VDE 0435T.2021  
 mounting position : any  
 vibration resistance : VDE 0435T.2021  
 test voltage : 2,5kV  
 connection terminals : screws M3,5  
 connecton cross selection : 2 x 2,5mm<sup>2</sup>  
 mounting : symetrical DIN rail  
 DIN EN 50022  
 dimensions l x w x h : 78mm x 11,25mm x 110mm  
 weight : 71g

## EXAMPLE



The STR converts an input signal from 0...10V into an electrically isolated output signal of 4...20mA.

## DIMENSIONS and CONNECTIONS

