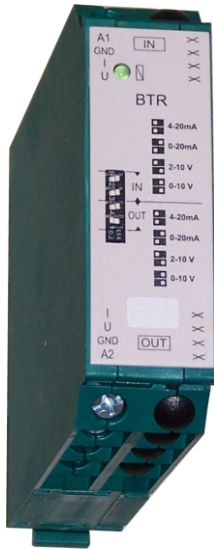


Isolation and Measuring transducers

BTR

serie 22,5mm



APPLICATION

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

DESCRIPTION

The BTR isolation transducer uses the terminals A1 and A2 for connection to 24V AC/DC (UC) or 230V AC (please specify). The green LED indicates the connection to the power supply, which must be continuously connected to the transducer.

FUNCTION

The BTR 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 BTR isolation transformer has three-way isolation.**

OPTION

Other supply voltages or input, output signals upon request.

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.

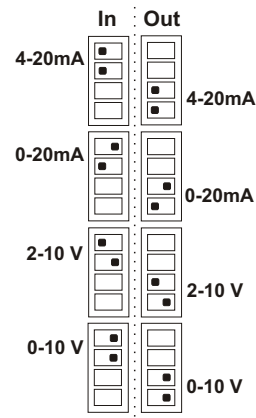
APPROVALS



ARTIKELNUMMER

16.011.01.000 BTR 24V UC Versorgung
 16.011.02.000 BTR 230V AC Versorgung
 16.011.03.000 BTR 110V AC Versorgung

DIP switch adjustments



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 temperature 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

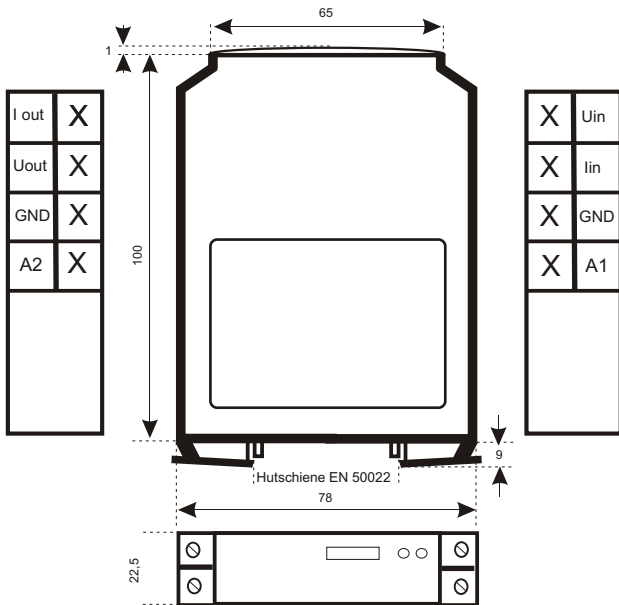
ambient temperature : 0 ... + 60°C
 climatic resistance : VDE 0435T.2021
 mounting position : any
 vibration resistance : VDE 0435T.2021
 test voltage : 2,5kV
 connection terminals : screws M3,5
 connection cross selection : 2 x 2,5mm²
 mounting : symmetrical DIN rail
 DIN EN 50022
 dimensions l x w x h : 78mm x 11,25mm x 110mm
 weight : 71g

Isolation and Measuring transducers

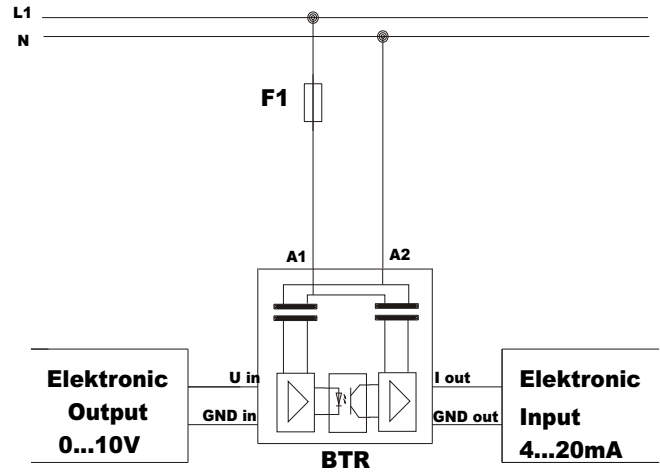
BTR

serie 22,5mm

DIMENSIONS and CONNECTIONS



EXAMPLE



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