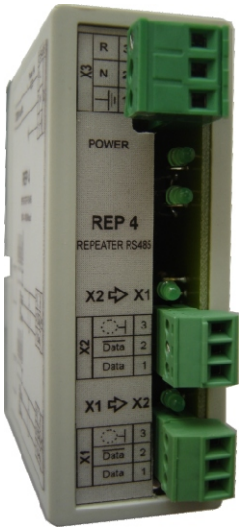
ISOMATIC COMPLECT Ltd

AUTOMATION SISTEMS AND EQUIPMENT

INTERFACE SIGNAL AMPLIFIER REP485



Function

The module REP485 is an amplifier of interface signals used by serial data interconnection standard RS485. It is intended to amplify signals when building networks comprising of many devices or long data lines. Usually this is necessary when the number of the devices in one segment of the network is bigger than 32 or the length of the line id more than 1 km.

There is galvanic isolation between the two I/O which provides safe and reliable connection between the different segments of the network.

The module can operate at transmission rates from 1200b/s to 19200b/s. The transmission rate is set by means of a switches/jumpers inside the module.

REP485 has an internal switching power supply which supplies the necessary voltages for both I/O interfaces.

On the front side there are indicators for power supply on, and data transmitting and receiving via RS485.

The module is placed in a plastic enclosure which can be connected to a DIN rail S35.

Specifications

Transmission rates
1200b/s, 2400b/s, 4800b/s, 9600b/s, and 19200b/s

RS485 Interfaces

- Connectors RJ-3
- Signals - DATA, $\overline{DATA}$, and shield
- Maximum distance between two amplifiers 1 km
- Maximum number of RS485 devices in one segment - 32

Power Supply

- input voltage from 80V to 250V dc/ac
- consumed power 2 W

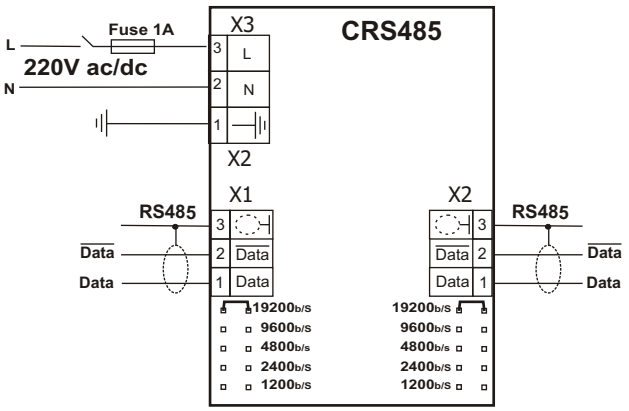
Isolation 2500 V
Between the two inputs/outputs.

• Operation conditions:
Ambient air temperature from 0°C to 55°C
Relative humidity of the air from 40 to 80%

• Storage conditions:
Ambient air temperature from - 40°C to 70°C
Relative humidity of the air not more than 85%

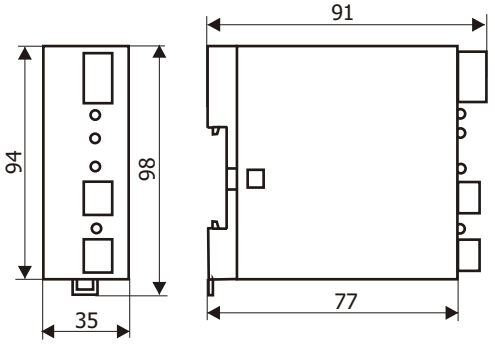
• Mounting instructions
Fix vertically on a DIN rail.

Connection diagram



1.The switches for the transmission rates for the two inputs/outputs have to be set to one and the same transmission rate.

• Overall and fixing dimensions



Producer: ISOMATIC COMPLECT Ltd 4002 **Plovdiv, Bulgaria, 61A "G. Izmirliev" St.**
tel/fax: +359 32 640 805, +359 32 642 312 e-mail:office@isomaticcomplect.com
www.isomaticcomplect.com

ISOMATIC COMPLECT Ltd

- **Manufactures:** universal and specialized programmable logic controllers with many digital and analog peripherals; multichannel regulators, solid-state relays, signal transmitters, etc.
- **Designs and implements** automated systems for machines and processes in all branches of industry and power engineering.