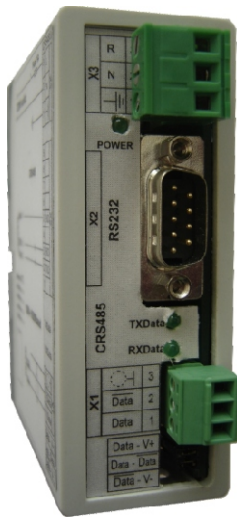




### INTERFACE TRANSMITTER CRS485

#### Function



The module CRS485 is an interface transmitter between the serial data interconnection standards RS232 and RS485. It can be used to make a connection between two devices with different interfaces, as well as for implementation of "MASTER SLAVE" type networks.

The two interfaces are galvanically isolated which provides safe and reliable connection.

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

CRS485 has an internal switching power supply which supplies the necessary voltages for both interfaces.

On the front side there are indicators for power supply on, and data transmitting and receiving via RS485. The switches for terminating the signals from RS485 are also on the front side.

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

##### RS232 Interface

- Connector DB9 male
- Signals - RxD, TxD, and GND
- Cable length - < 10 m

##### RS485 Interface

- Connector RJ-3
- Signals - DATA, DATA, and shield
- Maximum distance 1 km
- Maximum number of devices 32
- Terminating resistors (turned on by means of switches on the front side)
  - between DATA and DATA - 120 ohm
  - between DATA and +U(+5V) - 120 ohm
  - between DATA and -U(0V) - 120 ohm

##### Power Supply

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

##### Isolation 1500 V

Between RS232 and RS485.

##### • Operation conditions:

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

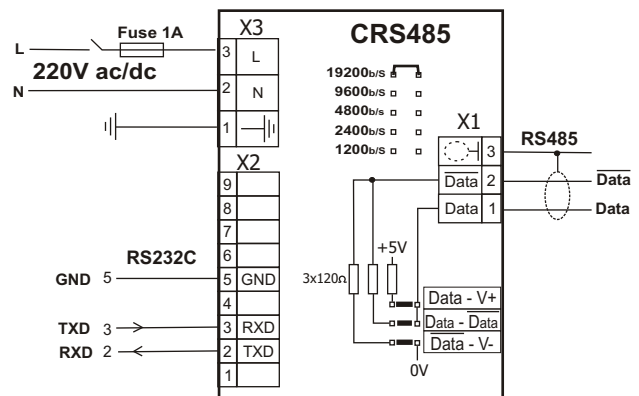
##### • Storage conditions:

Ambient air temperature from minus 40°C to 70°C  
Relative humidity of the air not more than 85%

##### • Mounting instructions

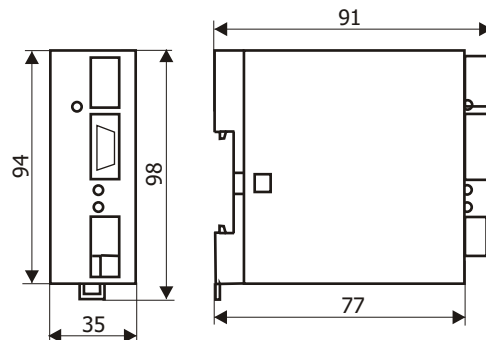
Fix vertically on a DIN rail

#### Connection diagram



1. When only two modules CRS485 are used, all terminating resistors are connected.
2. When more than two CRS485 modules are used, for the end modules the terminating resistor between DATA and DATA is connected, and for the modules in the middle of the line the terminating resistors between DATA and +U and between DATA and -U are used.

#### • Overall and fixing dimensions



#### 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.