

## Repeater RP-RS485



### General

The master module's address range is limited to 128 for the subnet system. Thanks to the modules with the subaddressing option (IN-02U-S4, OUT-02L-230V-10A, ETD-01L-12V-105W) it is theoretically possible to manage up to 512 modules. A repeater is required for ISYGLT subnet systems operating more than 128 modules (systems with subaddressing) or BUS cable sections longer than 1500m. The repeater virtually functions as a booster and galvanic separator for the BUS domains. Galvanic separation of the

BUS domains. To keep it simple, one RS-485 connection is called the "subnet master", and the other RS-485 connection is called the subnet expansion. The "subnet master" RS-485 connection is connected to the master system to be expanded. Up to 128 BUS communication entities can be operated in turn on the "subnet expansion" with a maximum cable length of 1500m.

### Function displays

- 1 yellow "TD" LED indicates data communication between the subnet connections (master and expansion).
- 1 green "RD" LED indicates data communication between the subnet connections (master and expansion).
- 1 green "VCC" LED indicates the operating voltage.

### Connections

- 1 connection for the master subnet (BUS A and B, RS-485)
- 1 GND for master subnet
- 1 PE
- 1 connection for the expansion subnet (BUS A and B, RS-485)
- 1 GND for subnet expansion
- 1 PE
- 2 connections for the operating voltage (2x Ub, 2x 0V)

### Design

- Green plastic casing, can be snapped onto 35 mm DIN rail

### Technical data

<b>Typ</b>	<b>REPEATER-RS-485</b>
Art. Nr.	8008761180087611
Operating voltage	24V AC/DC +/-20%
Power consumption	ca. 90mA
Subnet (RS-485)	Interface 1 Subnet-Master Interface 2 Subnet-Enhancement
Dimensions	BxHxT 22,5x99x114,5mm
Weight	130 g
Connection	Screw terminals 2,5mm <sup>2</sup> plug-in
Operating voltage	0...+50 °C

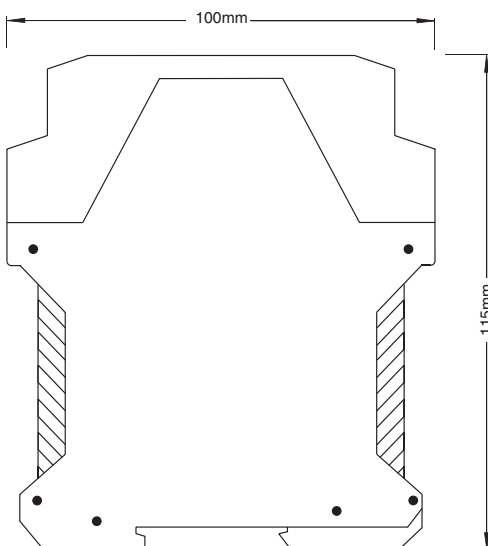
<b>REPEATER-RS-485</b>	<b>Continued</b>
Storage temperature	-10°C...+50°C-10°C...+50°C
Humidity	0...85 % r.F. non condensing
Protection class	IP 30
EMC immunity	Convenience according to EMV-directions 89/336/EWG, EN 50 081-1, EN 50 082-2 (Test was carried out within a whole system)
CE mark	yes

### Terminal assignment

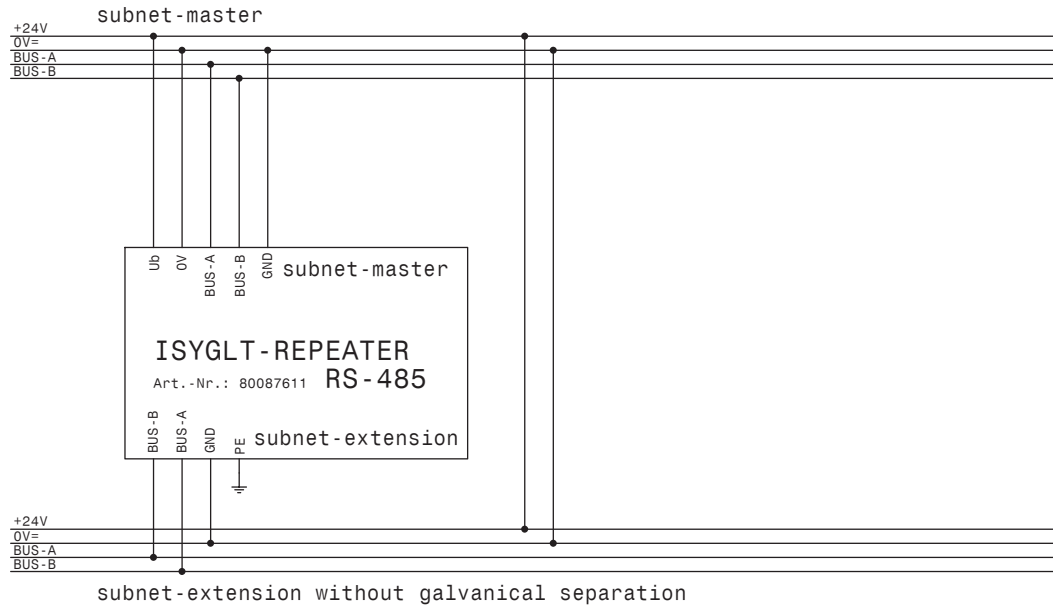
<b>Terminals</b>	<b>above</b>
24V	Operating voltage
24V	Operating voltage
0V	0V Operating voltage
0V	0V Operating voltage
A	Subnet Master BUS A (RS-485)
B	Subnet Master BUS B (RS-485)
GND	GND Subnet Master
PE	protective-conductor-connection

<b>Terminals</b>	<b>below</b>
A	Subnet enhancement BUS A (RS-485)
B	Subnet enhancement BUS B (RS-485)
GND	GND Subnet enhancement
PE	protective-conductor- connection

### View



### Wiring diagram (without galvanic isolation)



### Wiring diagram (with galvanic isolation)

