

RS485 Line Isolator SI485



The SI485 has 2 functions : It isolates a RS485 2-wire line and allows the matching and polarisation of the 2 RS485 lines.

It is powered by 9 to 40 VDC and can be mounted on a 35mm DIN rail.

No configuration of the data rate or the data frame is necessary.

Characteristics

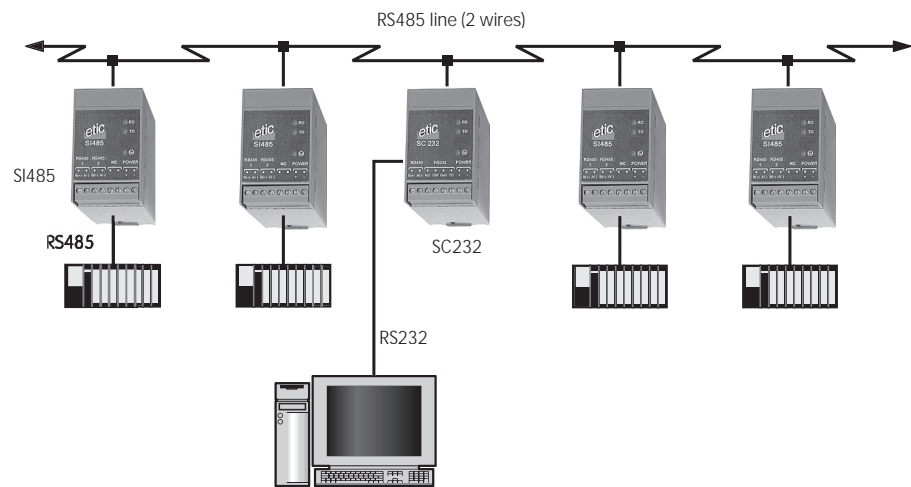
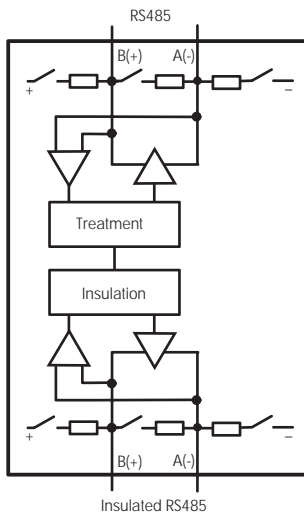
- RS485 isolation 2500 V
- Automatic RS485 shifting
- Built-in polarisation and matching resistors
- PROFIBUS DP, MODBUS, DH485, UNITELWAY, SYSMACWAY
- DIN rail mounting

Applications

Extension of RS485 Fieldbus network

SI485

RS485 line isolator



Range	
cable diam. 0,4 mm 50 nF/Km	
Data Rate	Km
< 4 800 b/s	2,0
9 600 b/s	1,5
19 200 b/s	1,2
38 400 b/s	1,0
57 600 b/s	1,0
115 200 b/s	0,7

Characteristics	
Dimensions	72 x 45 x 110 mm (h, l, d)
Isolation	2500 Vrms
Electrical safety	EN 60950
Supply voltage	9 to 40 VDC
Consumption	50 mA at 24 VDC
Operating T°	0°C / + 60°C dry air
RS485 line polarisation and matching	
■ 2-wire RS485 on screw-clamp connection	
■ Selection of the 4 matching resistors by switch :	
UNI-TELWAY:	120 Ω + 1 nF
PROFIBUS DP:	220 Ω
PROFIBUS DP:	150 Ω
MODBUS:	620 Ω
■ Selection of the polarisation R. by switch :390 Ohm	
Number of subscribers	32 / RS485 line
Data rate / frame	Any data rate and data frame up to 187,5 kb/s
Configuration	Microswitches

Designation	Reference
RS485 line isolator	SI485