

SERIAL LINK INTERFACE

USER GUIDE

MODELS ILPH RS 232 / RS 232 - 24-48 VDC
 MODELS ILPH RS 232 / RS 232 - 115-230 VAC

Réf. 100.205.520
ABB: 1SNB 002 055 R2000

Part/Number	24-48 VDC	Black body ENT	0084 234.12
	24-48 VDC	Grey body ABB V0	1SNA 684 234 R2000
	115-230 VAC	Black body ENT	0084 244.24
	115-230 VAC	Grey body ABB V0	1SNA 684 244 R0200

1. GENERAL

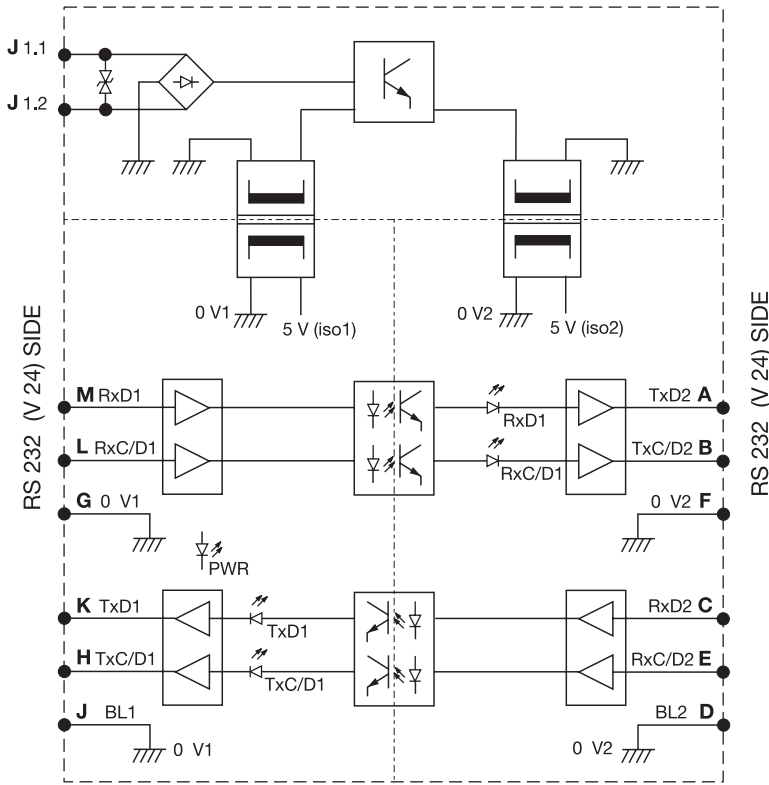
Galvanic isolator between RS 232 serial interface and a other RS 232 serial interface.

It ensures a triple insulation (1,5 kVAC) between the 2 serial interfaces and between each and power supply.

This interface protects the two interface systems.

Large range of power supply from 24 to 48 VDC and 115 to 230 VAC.

2. SCHEMATIC DIAGRAM



3. TECHNICAL SPECIFICATIONS

3.1 POWER SUPPLY

	0084 234.12 1SNA 684 234 R2000	0084 244.24 1SNA 684 244 R0200
Voltage	24 to 48 VCC -15% ... +20%	115 to 230 VAC (50/60 Hz) -15% ... +15%
Overvoltage protections (1,2/50 µs wave)	8 kV	8 kV
Protection against reverse polarity	Diodes	
Gradually voltage variations	Conform to IEC 1131-2	Conform to IEC 1131-2
Micro-cuts capability	1 ms max	10 ms max
Maximum supply power	3,15 W	3,15 W
Supply current	alim 24 V -15/+20% < 155 mA alim 48 V -15/+20% < 77 mA	
Connections	Removal screw terminal	
Voltage Indicator	1 yellow LED	

Galvanic insulation :

- between supply and channel 1	1,5 kVAC
- between supply and channel 2	1,5 kVAC
- between channel 1 and channel 2	1,5 kVAC

3.2 RS 232 LINK

RS 232 Interface (channel 1 and 2)

Reference norms	EIA/TIA 232E (RS 232 new revision) UIT-T V28 and UIT-T V24
Maximum binary data rate	20 kbit/s (64 kbit/s depending on cable)
Maximum capacity allowed by emitters	2500 pF
Connections	Screw type connections.
Traffic indicator	4 x green LED (Rx/D, Rx/C/D, Tx/D, Tx/C/D)
Overvoltage protection (1,2/50 µs wave)	8 kV

3.3 PHYSICAL CHARACTERISTICS

EM Compatibility

- Electrostatic discharge	8 kV in air (IEC 1000-4-2 level 3, like IEC 801-2)
- Radiated Electromagnetic field	10 V/m (IEC 1000-4-3 level 3, like IEC 801-3)
- Radiated RFI	EN 55022 Class B
- Conducted RFI	1 kV (IEC 1000-4-4 level 3, like IEC 801-4)
Operating temperature	0 to 40° C
Operating humidity	5 to 95 %
Storage temperature	-25 to +80° C
Box serie 11000 ABB Entelec	snaps onto DIN 1 or 3 rail

