# LogicMachine3 Re:actor

Re:actor is your easiest way to program complex logic in KNX/EIB, Modbus, BACnet, EnOcean networks. Re:actor will enable you to efficiently customize building automation processes, easily delivering unlimited flexibility benefit to end users in a cost-effective way.

Re:actor is an embedded platform with integrated Ethernet, USB, EnOcean interfaces, 31 IO ports. Re:actor allows to use it as cross-standard gateway, logic engine, visualization WEB SCADA server.

Scripting templates provides user-friendly, flexible configuration interface. Via applying custom scripts the Re:actor can simultaneously act as thermostat, security panel, lighting controller, etc.
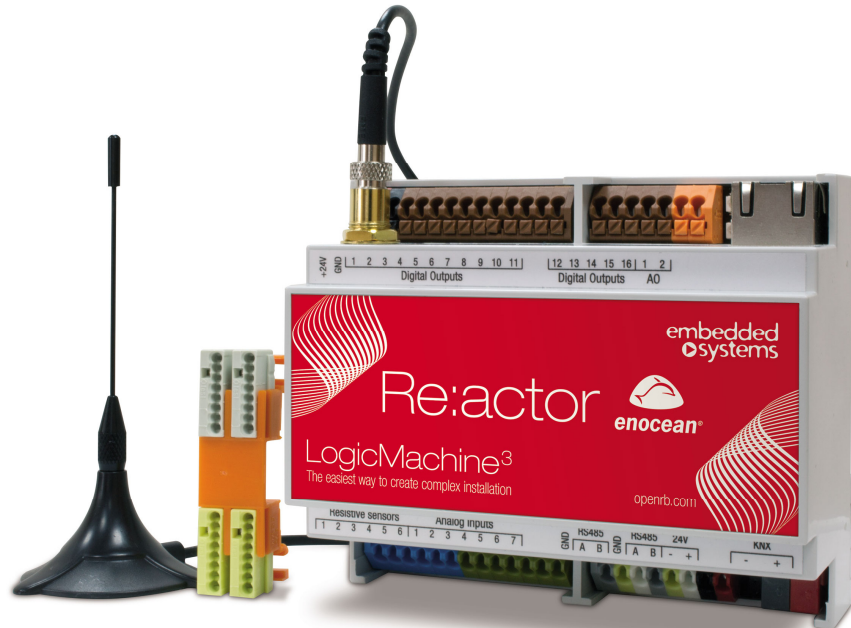
ENG - Data sheet
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Application

Logical functions; WEB SCADA visualization for PC and touch-devices; cross-standard gateway between KNXnet/IP, Modbus TCP/IP, Modbus RTU, BACnet MS/TP, BACnet IP, EnOcean, HDL, GSM and other protocols; integration with third party devices over RS232 or RS485 serial ports – DALI, AV, IR; Data logger with trends.

Types of product

Re:actor	LM3-REACTOR

Standards and norms compliance

CE conformity:	EMBS-CE-111231/01	Electromagnetic compatibility
EMC:	EN61000-6-1	
	EN61000-6-3	
PCT	Certificate	

Technical data:

Power supply:	7-36V DC	
Power consummation:	1.5W	
Interface:	EnOcean 868MHz	1
	10BaseT/100BaseTX	1
	RS485	2
	USB2.0	1
	TPUART2	KNX/EIB compatible
	Digital output	16 (380 mA continues current on output). Optoislated from KNX/EIB bus. Additional 24V power source is supported.
	Resistive sensor inputs	6 (PT100, PT1000, $0 \, \Omega...20M \, \Omega$)
	Analog/binary inputs	7 (0-30V with configurable threshold voltage, 12bit resolution)
	Analog outputs	2 (0-10V, 12bit resolution, 20mA max current)
Connections:	KNX bus:	Bus Connection Terminal 0.8mm2
	Power supply:	Clamp, 1.5mm2
	Serial:	Clam, 1.5mm2
	IO:	Clam, 1.5mm2
Operating elements	LED	1 – CPU load
		1 - Activity
Enclosure:	Material:	Polyamide

| | Color: | Gray |
| | Dimensions: | 104(W)x90(H)x51(L) mm |

Usage temperature:	-5C ... +45C
Storage temperature:	-25C ... +55C
Weight:	150g
Warranty:	2 years

⚠ Caution
Security advice

The installation and assembly of electrical equipment may only be performed by skilled electrician. The devices must not be used in any relation with equipment that supports, directly or indirectly, human health or life or with application that can result danger of people, animals or real value
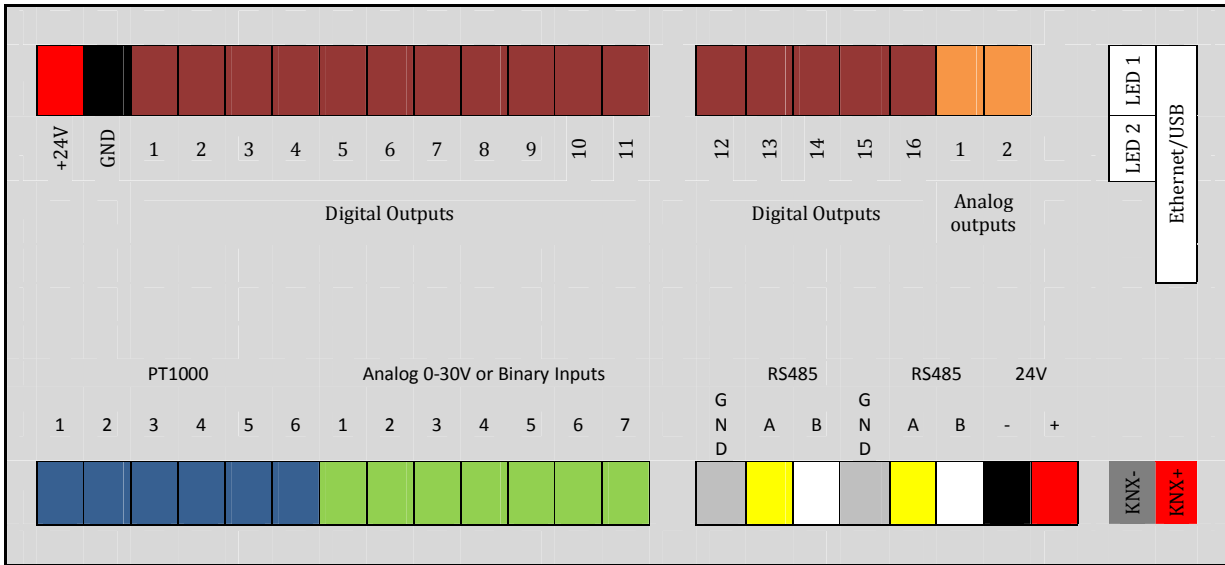
Mounting advice

The devices are supplied in operational status. The cables connections included can be clamped to the housing if required.

Electrical connection

The devices are constructed for the operation of protective low voltage (SELV). Grounding of device is not needed. When switching the power supply on or off, power surges must be avoided.

Terminal connection scheme

+24V	GND	1	2	3	4	5	6	7	8	9	10	11		12	13	14	15	16	1	2		LED 2	LED 1	Ethernet/USB
						Digital Outputs										Digital Outputs			Analog outputs					

	PT1000					Analog 0-30V or Binary Inputs								RS485			RS485		24V		
1	2	3	4	5	6	1	2	3	4	5	6	7	GND	A	B	GND	A	B	-	+	KNX- KNX+

The EIA-485 differential line consists of two pins:

A aka '-' aka TxD-/RxD- aka inverting pin
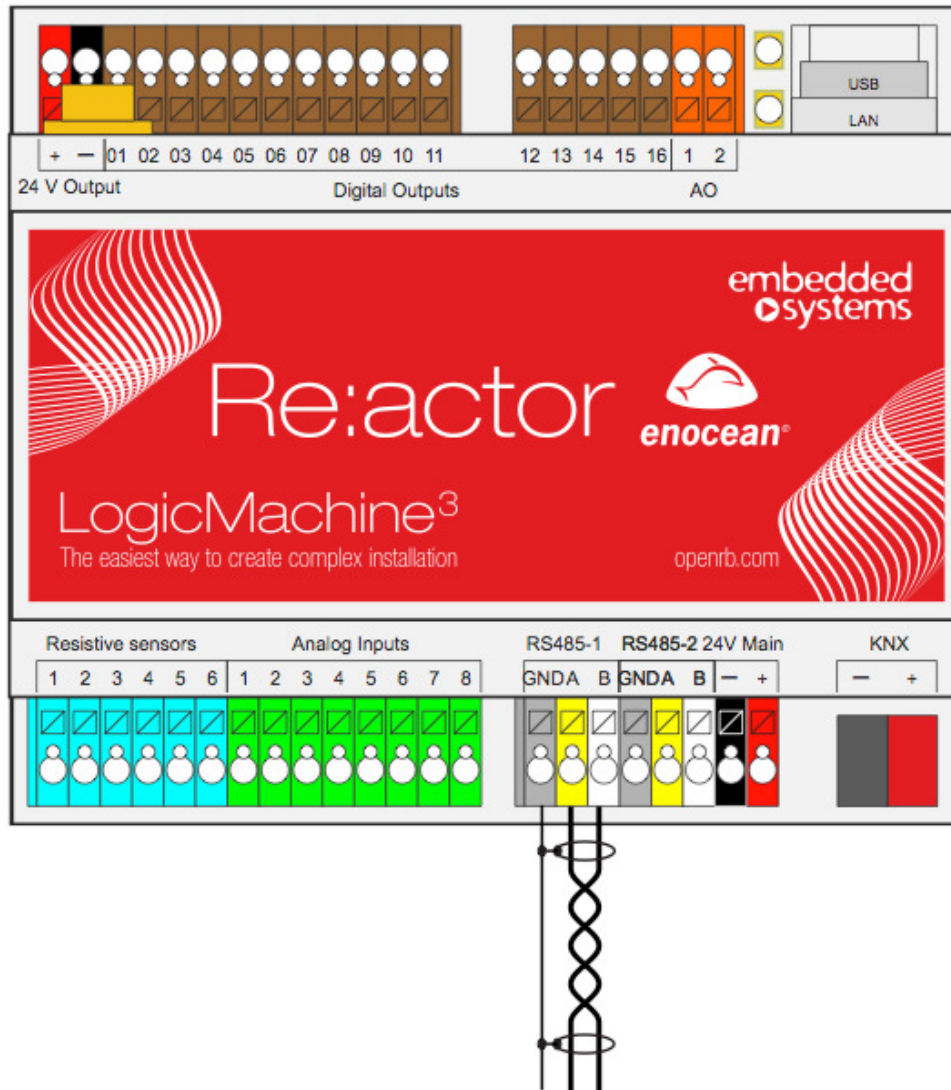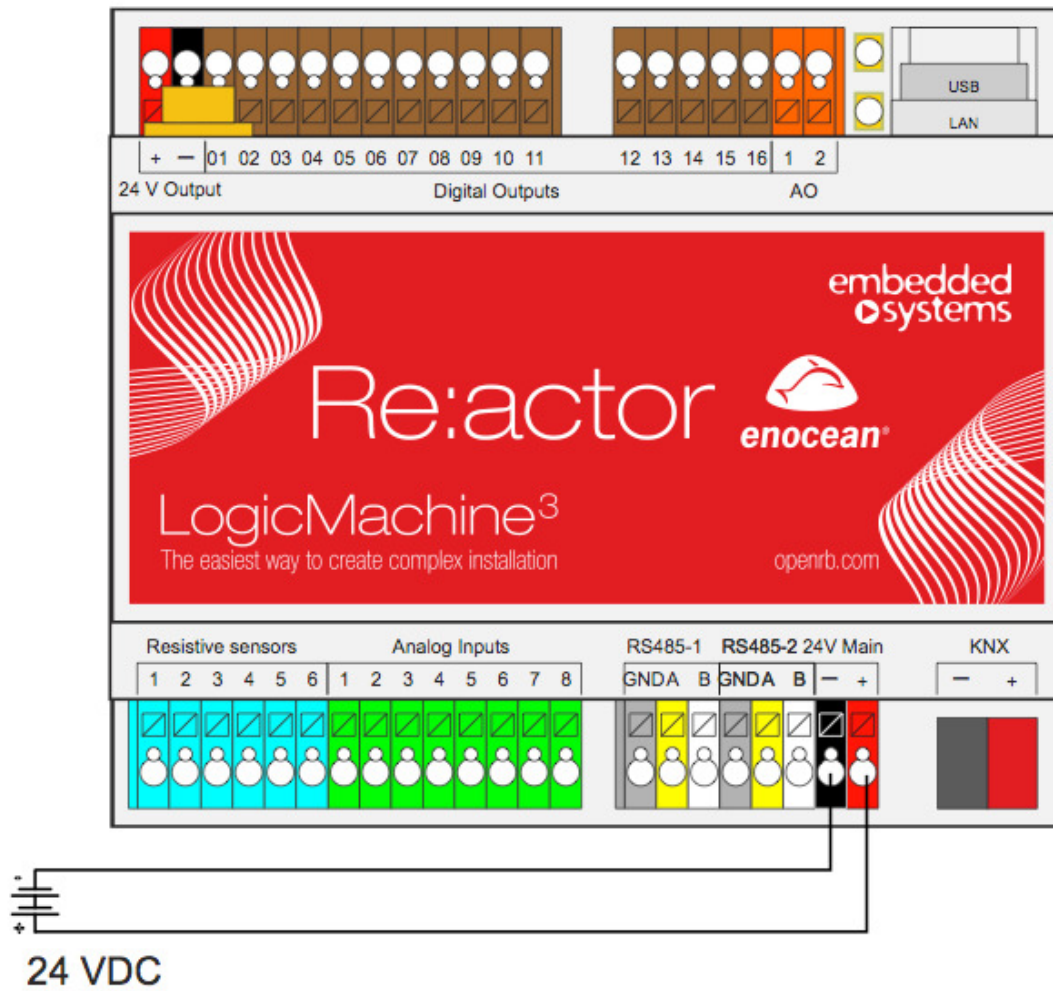B aka '+' aka TxD+/RxD+ aka non-inverting pin

Default IP configuration

Login name	admin
Password	admin
IP address	192.168.0.10
Network mask	255.255.255.0

Terminal connection schemes

KNX TP
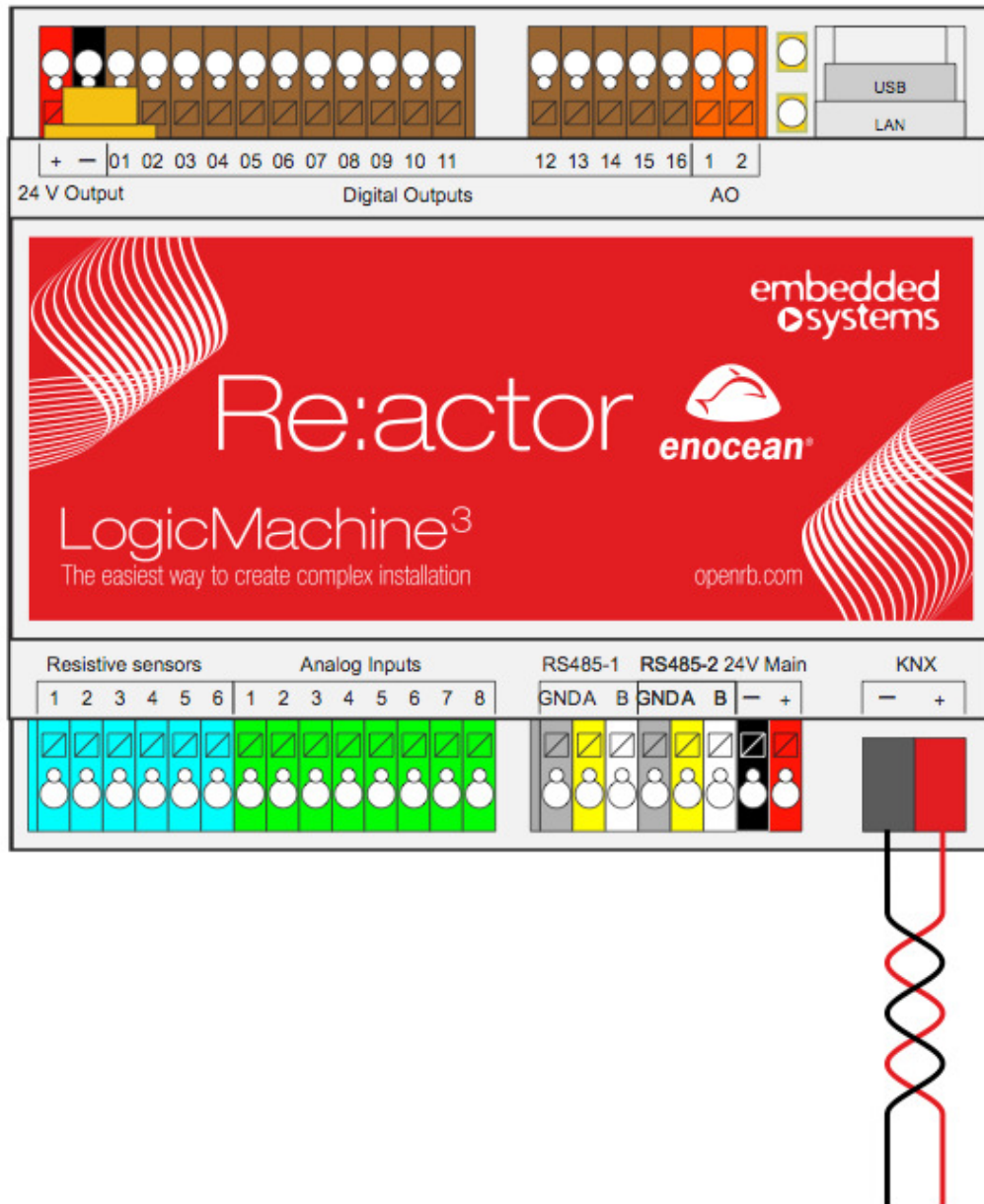
RS485

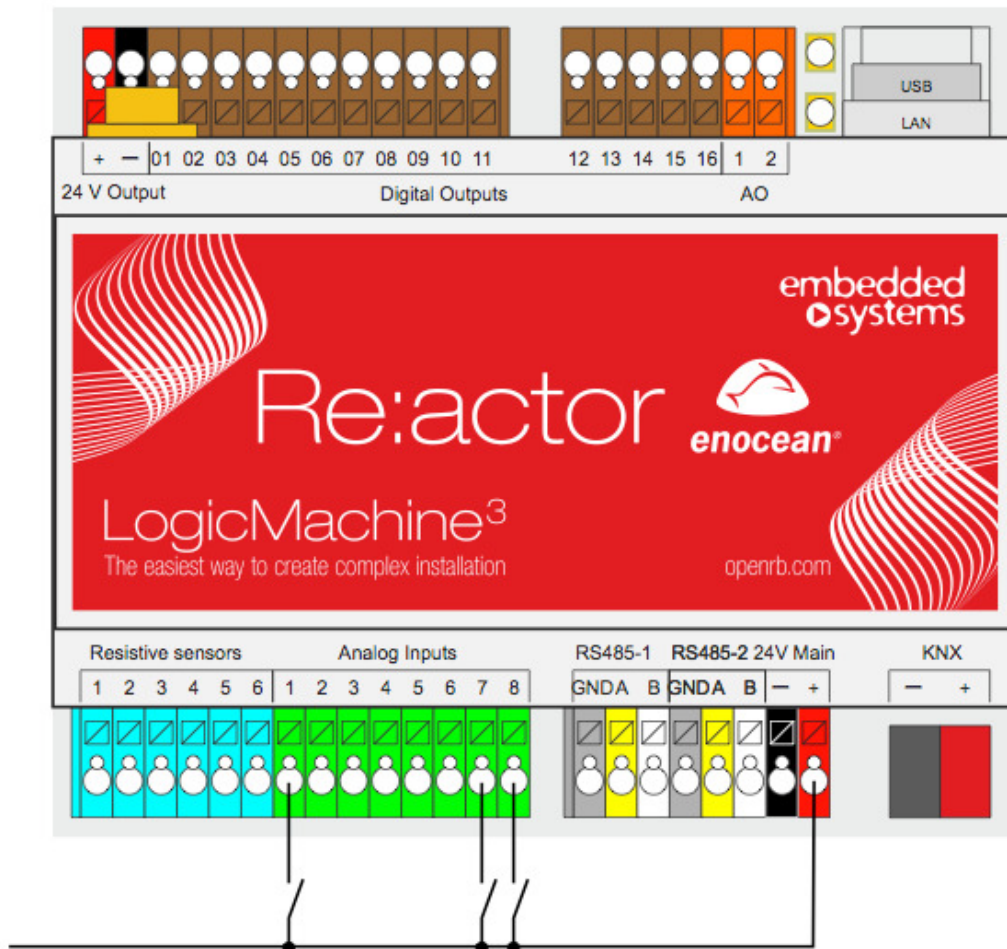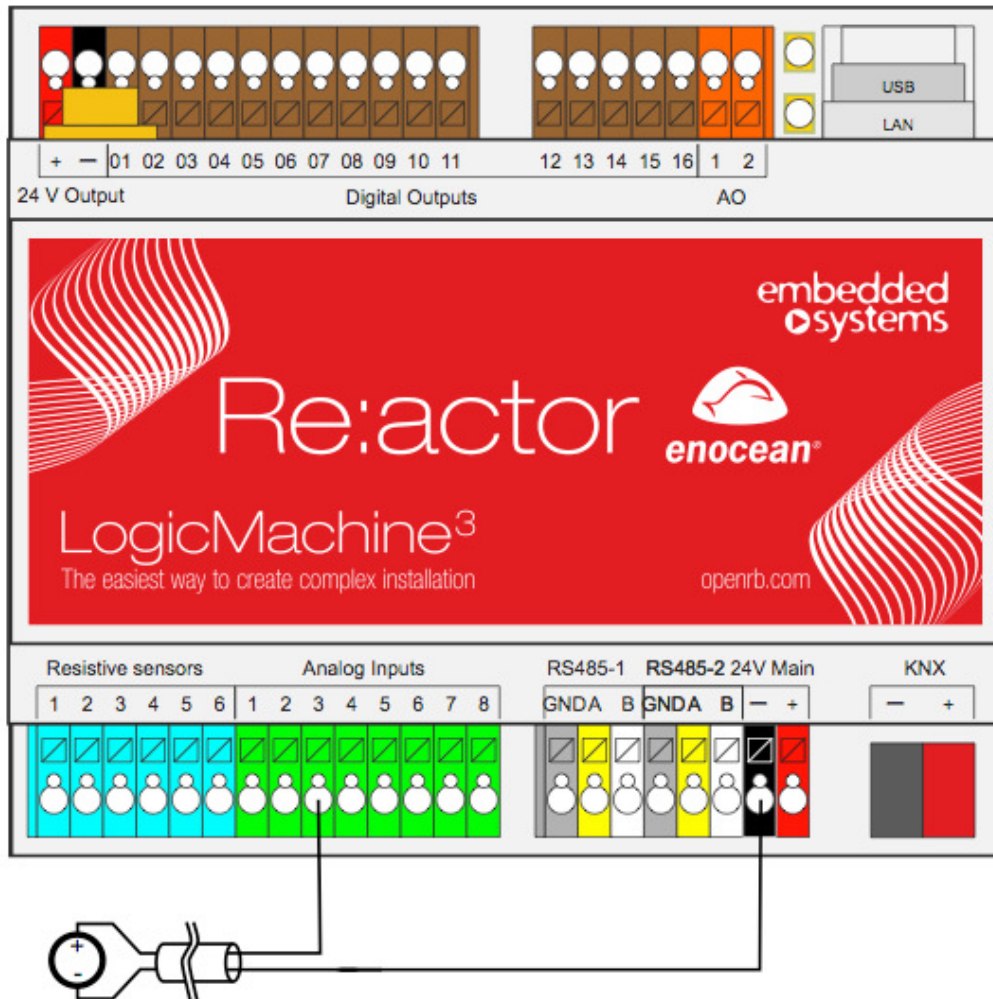The EIA-485 differential line consists of two pins:

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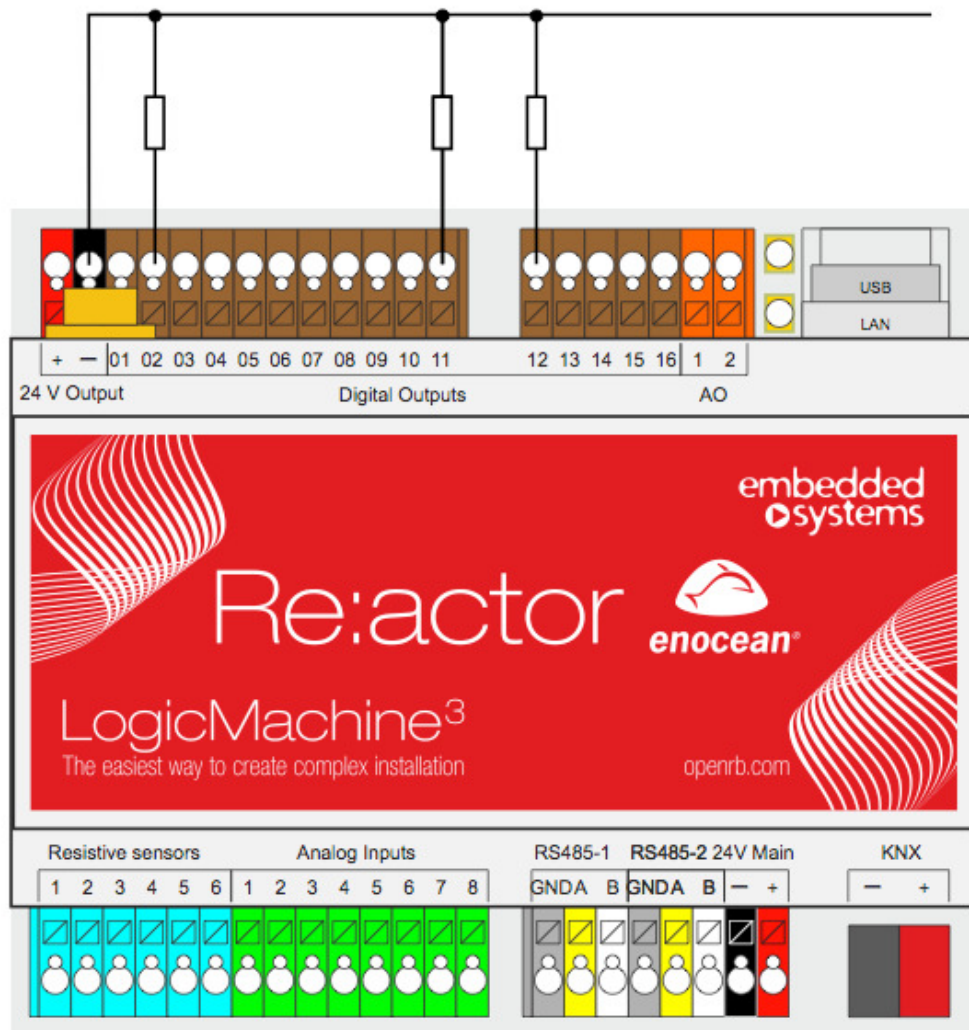B aka '+' aka TxD+/RxD+ aka non-inverting pin
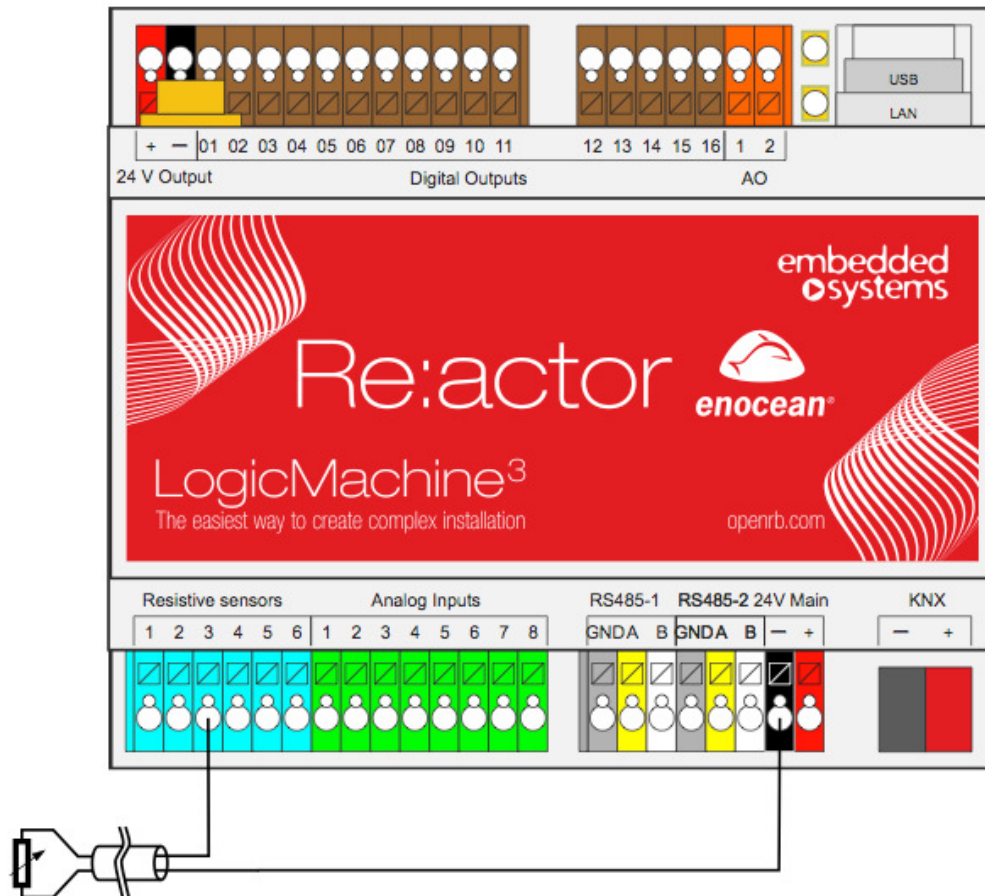
24V power supply

Analog inputs (e.g. reed contact)

Analog inputs, 0-10V

Digital output

Resistive sensor input

Analog output