

Package leaflet robusto-slave RSC123 device

Please keep save

Important information:

Please observe all guidelines in the respective manual before startup!
Download under www.elrest.com > Support > Tools & Downloads



	<p>The RSC123 is mounted on a 35 mm top hat rail acc. DIN EN 60715 Bring the system into a safe, de-energized state before starting installation, disassembly or wiring of the device! THE TOP HAT RAIL MUST BE CONNECTED TO THE PROTECTIVE EARTH (PE)</p>		
	<p>The device must be installed vertically.</p>		
	<p>The ground from the RSC123 has to be connected with the PE on the switch cabinet. The device will be connected via X1 (power supply). When connecting and disconnecting cables, which require a great effort, the device must be hold in the top hat rail, so that no tear out of it is possible. The device must be connected via X1 and the fitting in the housing cover, corresponding low- resistance, to the PE.</p>		
	<p>The RSC123 must be included in the earth concept via its protective earth (PE) connection. Connect the top hat rail with PE power supply X1 and PIN3 with PE. The cable screens of the communications ports X27 /CAN IN, X28 /CAN OUT are connected with their mating connectors to the PE. The housing of the RSC123 must be connected via the screw connection (on the cover), corresponding low-resistance to the PE. The screws are tightened. The output current of 3 A must be protected. (max. 10 A for each terminal block)</p>		
	<p>Do not connect the relays as a multi-phase use. Only 1 phase can be connected on a terminal block. Only connect low-voltage circuits or extra-low voltage circuits on a terminal block (never together). The stripping length of the cables according the terminal data must be strictly observed.</p>		

Assembly:

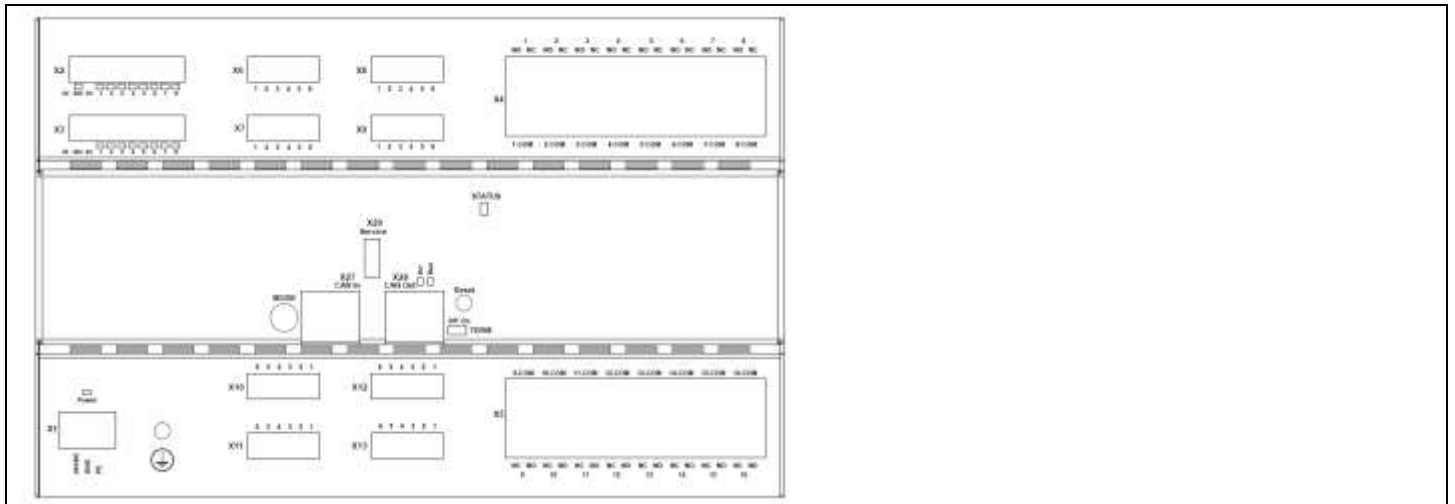
	<p>Keep the RSE240 over the top hat rail, so that the top hat rail applies in a right angle to the rear side of the device.</p> <p>Put the device into the top hat rail and push against the spring force of the splay, till the upper part of the profile snaps over the upper part of the top hat rail.</p>
	<p>Release the device; it must fit free and robust on the top hat rail.</p> <p>Check the best fit by easy attempts at movement of the device.</p>

Disassembly:

	<p>All connecting plugs must be removed before the disassembly.</p> <p>For the disassembly push up the device, till the device can be tipped forward for the release</p>
	<p>Push the device against the spring force of the splay till it can released from the upper part of the top hat rail.</p> <p>In this moment the device is no longer kept from the top hat rail, it must keep hold of you to avoid falling down.</p> <p>Lower the device and remove it from the top hat rail.</p>



Front view of the interfaces:

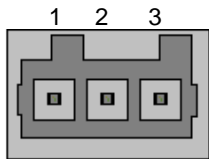


Terminal assignment of the communication interfaces

X1: Power supply

The RSC will be powered via this connector. It's protected against polarity.

X1



PIN Belegung

- 1 PS-24V
- 2 PS-GND-IN
- 3 PE



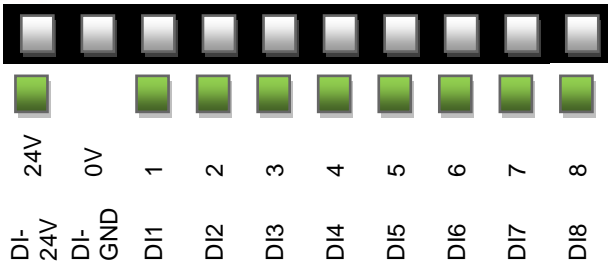
The pins are additionally identified on the labelling of the lid. The status LED „24 V“(power) lights, if the voltage systems functioning properly.

X2 – X3 Digital inputs

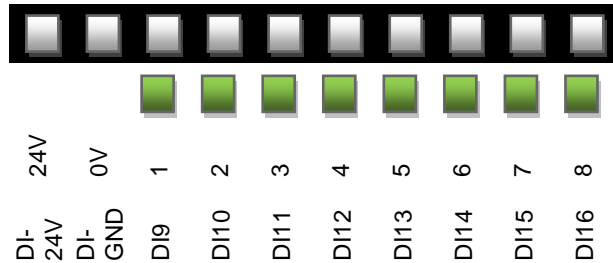


1 LED for the power supply of 24 V
16 green LEDs for the inputs
2 x 10-pole
WAGO-714-140

X2



X3

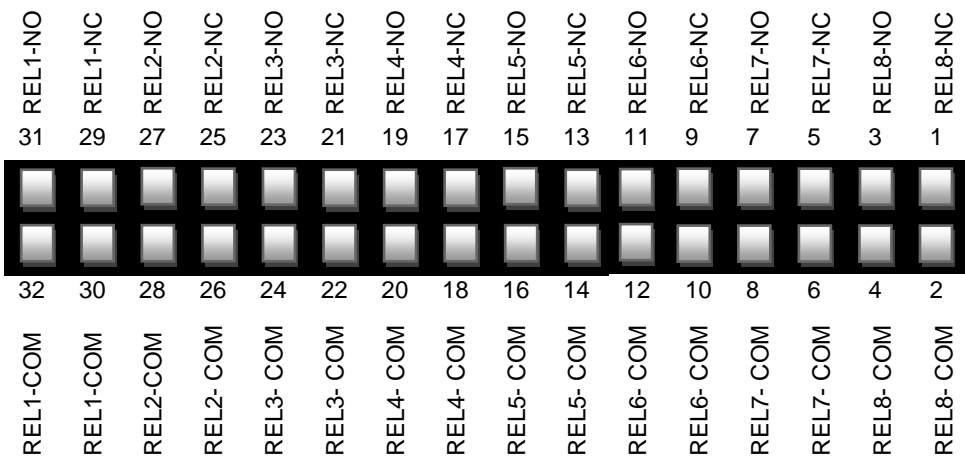


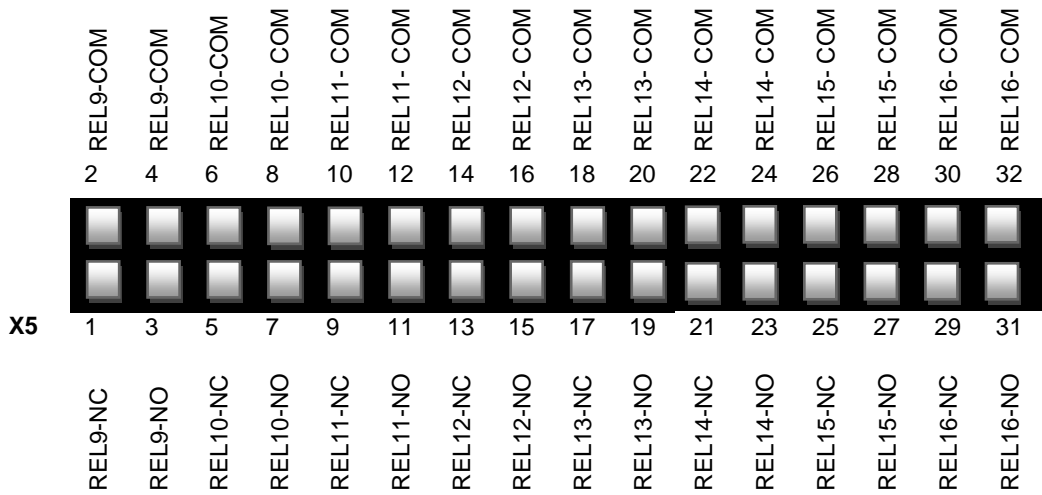
X4 – X5 Digital outputs (relays)



2 x 32-pole
WAGO-250-716

X4





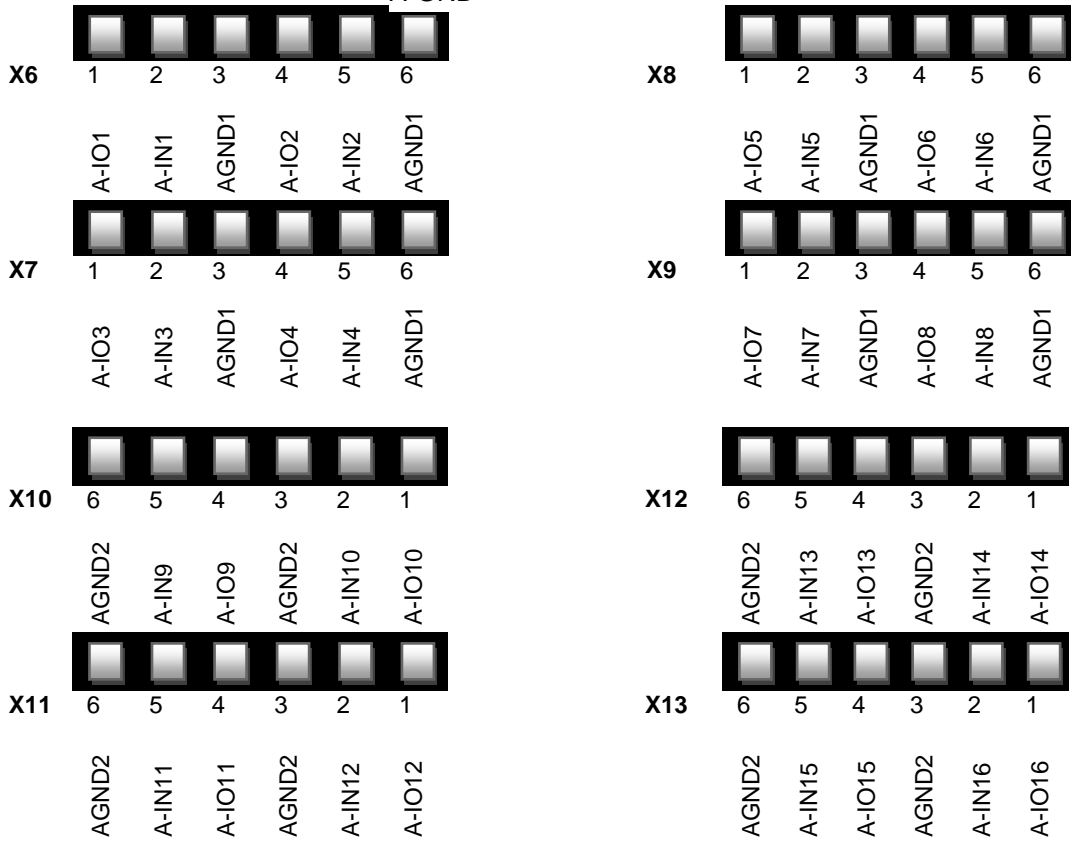
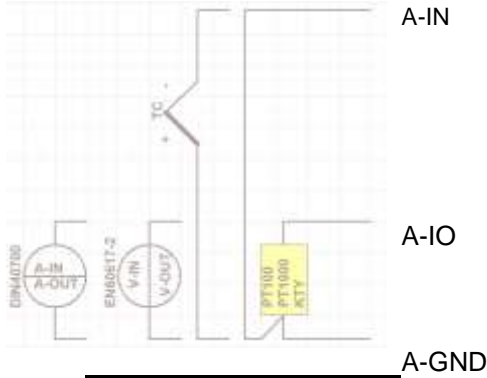
NO = Normal Open
 NC = Normal Connected

X6– X13 analog in- or outputs

16 analog in- or outputs
 Every 2 channels need a 6-pole connector.
 WAGO-714-136



External



X27 CAN IN - X28 CAN OUT

This interface is lead out via an 8-pole plug. It is galvanically isolated from the supply of the device voltage.



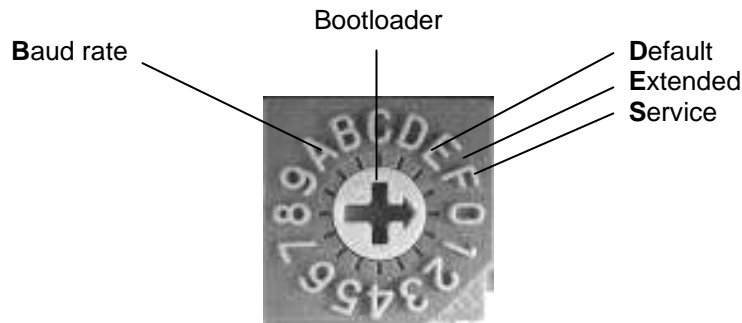
PIN	assignment
1	CAN-L
2	CAN-H
3	GND (signal ground for CAN)
4	NC
5	NC
6	NC
7	NC
8	NC



ON OFF
TERM

The CAN interface will be internal connected with supply voltage and is electrically isolated. The RJ45 metal body is on the potential PE (screen connection). The device has an optional terminating resistor for the bus. (Switch „TERM“ = ON / OFF)

Modi hex-switches



Mode 0...9:

Run-Mode:
CANopen Stack runs
The unit position of the NodeID corresponds to the switch setting.

Mode A:

Stop

Mode B:

Advanced service-mode(CAN baud rate):

CANopen Stack is stopped
Run-LED flashes (ca. 1,2 Hz)

By changing the switch settings 0...5 and remaining for 3 s, the baud rate of the CAN interfaces will be set, after the expiration (3s) the device performs a reset.

Switch setting	Baud rate
0	1 MBd
1	500 kBd
2	250 kBd
3	125 kBd
4	100 kBd
5	50 kBd

Mode C

Bootloader

The device changes in the bootloader modus. The firmware can changed via the serial interface.

Mode D

Default

After 3 s all settings will be reset to factory defaults.

- baud rate is set to 125 kBd
- nodeID is zeroised

Mode E:

Expanded service-mode (CAN NodeID):

CANopen Stack is stopped
Run-LED flashes (approx.. 1,25 Hz)

By changing the switch settings 0...9 and remaining for 3 s, the tens digit of the CAN NodeID will be set.

After 3 sec the device is performed a reset.

Mode F:

Service-mode:

CANopen Stack is stopped
Run-LED flashes (approx. 1,2 Hz)