Package leaflet robusto-slave RSC102 device

Please keep save

Important information:

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

	The RSC102 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 FUNCTIONAL EARTH (FE)**	
	The device must be installed vertically	

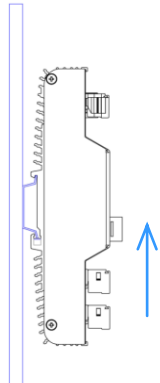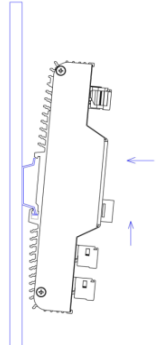|	The device will be connected via X1(power supply). When connecting and disconnecting those power cables, which require a great effort, the device must be hold in the top hat rail, so that no tear out of it is possible.
	Das RSC102 must be included in the earth concept via its function earth (FE) connections. Hierzu zählen: • Connect the top hat rail with FE • Connect power supply X1 and PIN3 with FE. • The cable screens of the communication ports, X27 /CAN IN, X28 /CAN OUT are connected with their mating connectors to the FE.

Assembly:

|	Keep the RSC102 over the top hat rail, so that the top hat rail applies in a right angle to the rear side of the device. 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.
	Release the device; it must fit free and robust on the top hat rail. Check the best fit by easy attempts at movement of the device.

Disassembly:

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

Front view of the interfaces:
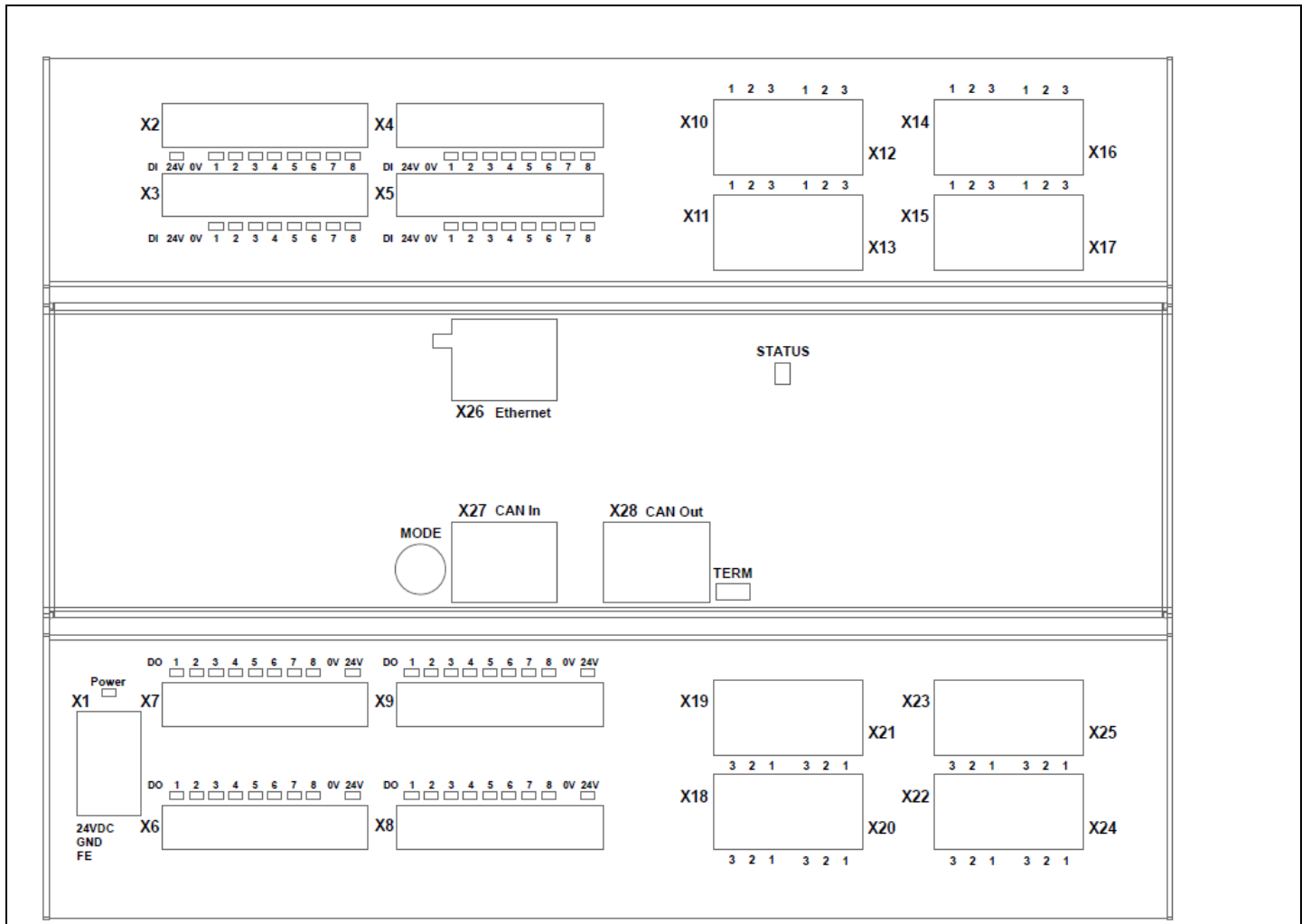
Terminal assignment of the interfaces:

X1 Power supply: Wago 734-103/037-000

PIN	Belegung
1	PS-24V
2	PS-GND-IN
3	FE ⏚

X1 Power ▢
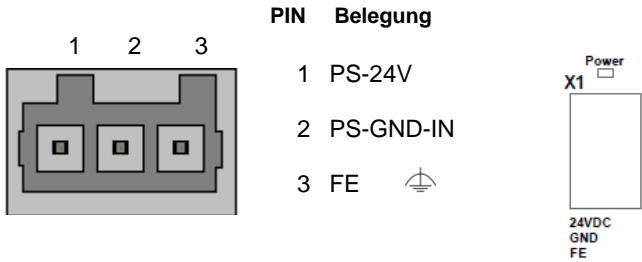
The pins are additionally identified on the labelling of the lid. The status LED „24 V"(power) lights, if the voltage systems functioning properly.

24VDC
GND
FE

X2 – X5 Digital inputs
32 green LEDs for inputs, 4 x 10-pole WAGO-714-110

X2

DI-24V 24V | DI-GND 0V | DI1 | DI2 | DI3 | DI4 | DI5 | DI6 | DI7 | DI8
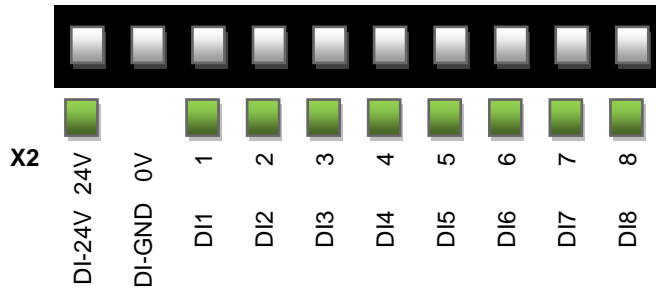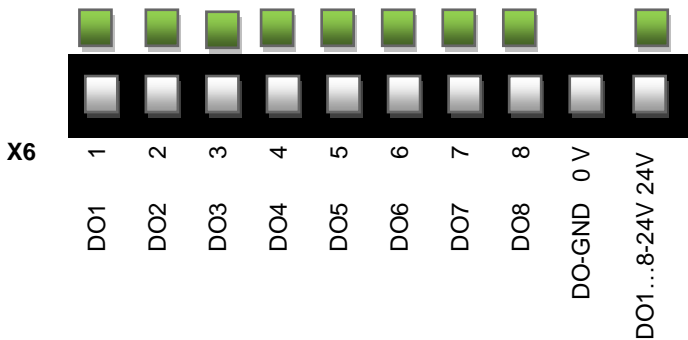
Digital inputs X3-X5: composition as X2

X3: DI9 - DI16

X4: D17 - DI24

X5: DI25 - DI32

X6 – X9 Digital outputs
32 green LEDs for outputs, 4 x 10-pole WAGO-714-110

X6

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

DO1 | DO2 | DO3 | DO4 | DO5 | DO6 | DO7 | DO8 | DO-GND 0 V | DO1…8-24V 24V
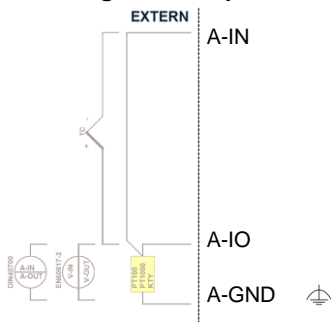
Digital outputs X7, X8, X9: composition as X6

X7: DO9 – DO16

X8: DO17 – DO24

X9: DO25 – DO32

X10 – X25 analog in- or outputs
16 analog in- or outputs, for each channel a 3-pole plug is required. Wago 2091-1103/002-000

EXTERN

A-IN

A-IO

A-GND ⏚

Analog in- and outputs. X11 - X24: composition as X10

X10   1   2   3
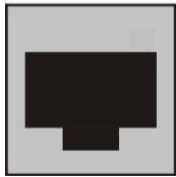
A-IO1 | A-IN1 | AGND1

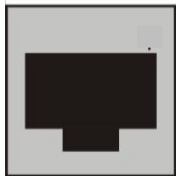|	
X11: A- IO2 A- IN2	X19: A- IO10 A- IN10
X12: A- IO3 A- IN3	X20: A- IO11 A- IN11
X13: A- IO4 A- IN4	X21: A- IO12 A- IN12
X14: A- IO5 A- IN5	X22: A- IO13 A- IN13
X15: A- IO6 A- IN6	X23: A- IO14 A- IN14
X16: A- IO7 A- IN7	X24: A- IO15 A- IN15
X17: A- IO8 A- IN8	X25: A- IO16 A- IN16
X18: A- IO9 A- IN9	

X27 CAN IN

This interface is lead out via an 8-pole plug RJ45. It's 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

X28 CAN OUT

This interface is lead out via an 8-pole plug RJ45. It is galvanically isolated from the supply of the device voltage. The device includes a shiftable terminal resistance. (Switch „TERM" = ON / OFF)
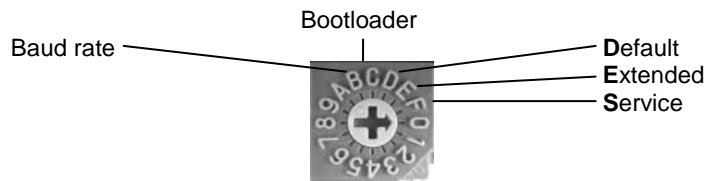
PIN	assignment
1	CAN-L
2	CAN-H
3	GND (Signal ground for CAN)
4	NC
5	NC
6	NC
7	NC
8	NC

Modi hex-switches

The device will be delivered in switch position „F". This corresponds the service- mode.

The CANopen Stack is stoppd and the device is no active CAN bus device.

Mode		
Mode 0...9:	Run-Modus:	
	CANopen Stack runs	
	The unit position of the CAN NodeID corresponds 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 un-LED flashes (approx. 1,2 Hz).	
	Device parameters can be changed e.g. with the help of the Hyperterminal (COM0).	

Note for devices with the index = „ PROTOTYPE".
Prototypes are used only for test purposes.

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