

Package leaflet robusto-slave RSE240 device:



Please keep save

	<p>The RSE240 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)</p>		
	<p>The device must be installed vertically.</p>		

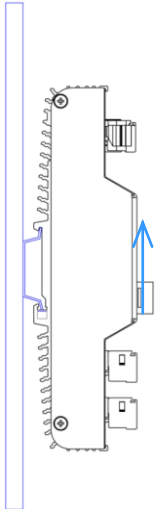
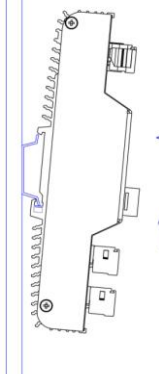
Assembly:

	<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. Check the best fit by easy attempts at movement of the device.</p>



When connecting those power cables, which require a great effort (X1 power supply; X6, X7, X8, X9 SSI-connections), the device must be hold in the top hat rail, so that no tear out of it is possible.

Disassembly:

	<p>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.</p>
	<p>Push the device against the spring force of the splay till it can be 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.</p>



Before removing the cable connectors, it's important to mark the SSI- interfaces, so that at a later time a fault-free assignment of the cables to the plug position will be possible.
If you reverse these connections, maybe malfunction and also damages to the device will be unable to avoid.

Functional earth(FE)

Top hat rail
Power supply X1



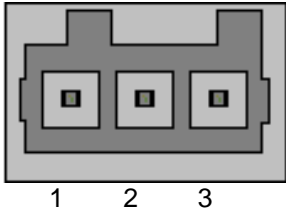
The cable screens of the communication ports X4 /ECAT1, X5 /ECAT2, X3 /CAN, X2 /USB are connected via their respective mating connector with FE.

FE shielding plate
SSI – interfaces



Terminal assignment of the communication interfaces

X1/ PWR



PIN

PIN	Configuration
1	FE functional earth
2	0 V DC (GND – reference)
3	24 V DC supply voltage

Configuration

X1 / PWR



FE GND 24VDC 24V 5V

The pins are additionally marked with its signal-name on the label of the lid. The control-LEDs „24 V“ and „5 V“ light up, if the voltage systems are functioning properly.

X2 /USB



PIN

PIN	Configuration
1	5 V DC, external supply
2	D +
3	D –
4	GND, external supply

Configuration

X2 / USB

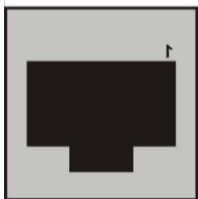


CB1 CB0

The virtual USB-comport must get its operating voltage (5 V DC) from the remote station. In this case, start the internal IC and a link connection with the internal CPU.

A galvanic isolation of the communication lines between comport and external USB-Host avoid ground loops.

X3 / CAN



Pin

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

Configuration

X3 / CAN

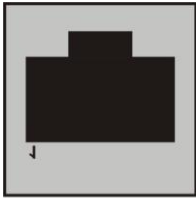


OFF ON TERM

The CAN interface is internally supplied with voltage and galvanically isolated. The RJ45-metal body remains on FE-potential (screen connection).

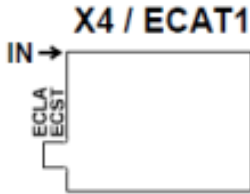
The device contains a switchable load resistance. (switch „TERM“ = ON / OFF)

X4 IN / ECAT1



Pin Configuration

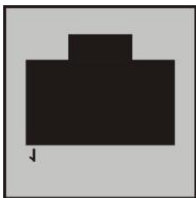
1	TX+
2	TX-
3	RX+
4	DC-
5	DC-
6	RX-
7	DC+
8	DC+



ECAT-IN : arriving EtherCAT cable
 LED ECLA : EtherCAT Link/Activity (green)
 LED ECST : EtherCAT status; Run (green), Error (red)

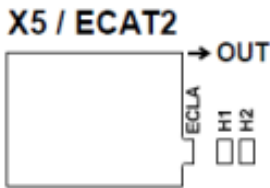
The cable shall be at least according to a shielded twisted - pair-cable of the category CAT5.

X5 OUT / ECAT2



Pin Configuration

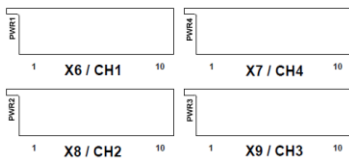
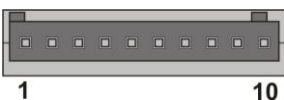
1	TX+
2	TX-
3	RX+
4	DC-
5	DC-
6	RX-
7	DC+
8	DC+



ECAT-OUT : outgoing EtherCAT cable
 LED ECLA : EtherCAT Link/Activity (green)
 LED-H1 : application-specific display
 LED-H2 : application-specific display

The cable shall be at least according to a shielded twisted - pair-cable of the category CAT5.

X6, X7, X8, X9: SSI- sensor- interfaces



Pin	X6 / CH1	X7 / CH2	X8 / CH3	X9 / CH4
1	SENSE1+	SENSE4+	SENSE2+	SENSE3+
2	VCC-CH1	VCC-CH4	VCC-CH2	VCC-CH3
3	GND-CH1	GND-CH4	GND-CH2	GND-CH3
4	SENSE1-	SENSE4-	SENSE2-	SENSE3-
5	FE	FE	FE	FE
6	FE	FE	FE	FE
7	SSI-1-DATA-	SSI-4-DATA-	SSI-2-DATA-	SSI-3-DATA-
8	SSI-1-DATA+	SSI-4-DATA+	SSI-2-DATA+	SSI-3-DATA+
9	SSI-1-CLK-	SSI-4-CLK-	SSI-2-CLK-	SSI-3-CLK-
10	SSI-1-CLK+	SSI-4-CLK+	SSI-2-CLK+	SSI-3-CLK+



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