Simulyzer Connector Box

Operating instructions

Connection adapter for PSI5, DSI3 and SENT Simulyzers



Connector Box with 4 mm binding posts and connection to the Simulyzer

Connect sensors and ECUs using banana plugs

Order no. 9.0002

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Seskion GmbH, 2026-11, EN

1 Purpose and scope of delivery

The Connector Box makes it easier to connect sensors and electronic control units (ECUs) to a Simulyzer. It routes the signals from the Sensor/ECU IO connector to accessible 4 mm binding posts with banana sockets. A supplied ribbon cable connects the box to the Simulyzer.

1.1 Intended use

The box is intended for the PSI5, DSI3 and SENT Simulyzers. It is a passive connection adapter and requires no separate power supply or software installation. Measurement, simulation and configuration are performed by the respective Simulyzer.

Use the box in an electronics laboratory. Also follow the operating instructions for the Simulyzer in use and the connection requirements of the sensors and ECUs.

1.2 Scope of delivery



Fig. 1 Connector Box with the two supplied ribbon cables

- 1 Connector Box
- 2 ribbon cables with 25-pin D-sub connectors

Before first use, check the box and cables for damage in transit. Do not use damaged parts.

2 Terminals and signal assignment

The top of the box has two rows of terminals numbered 1 and 2. The numbers identify the signals assigned to the respective channel. Use the labels on the device to identify the terminals.



Fig. 2 Labels and colours of the 4 mm binding posts

Colour	Label	Function
Black	GND	Signal ground
Brown	ECU1 / ECU2	ECU connection for PSI5/DSI3; positive supply (Supply+) for SENT
Red	Sensor1 / Sensor2	Sensor connection for PSI5/DSI3; data line for SENT
Green	DC1 / DC2	Daisy-chain connection; not used for SENT

The available channels and connections depend on the Simulyzer in use and the operating mode. The DSI3 Simulyzer uses the first signal channel. The second row of terminals does not provide an additional DSI3 channel.

On this box, DC stands for daisy chain. Use the green terminals only for the intended daisy-chain setup. The labels on the device also remain unchanged when used with SENT.

3 Connecting to the Simulyzer

NOTICE	Disconnect power from the test setup before connecting, disconnecting or changing any wiring. Observe the permissible signal levels and loads of the Simulyzer and the connected devices.

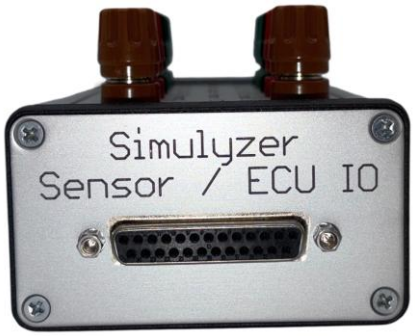
Simulyzer	External
	

Fig. 3 Connector sides of the box

3.1 Making the connection

1. Switch off the Simulyzer and connected devices. Switch off external power supplies for the test setup.
2. Use a supplied ribbon cable to connect the side of the box labelled “Simulyzer Sensor / ECU IO” to “Sensor / ECU IO” on the Simulyzer.
3. Insert D-sub connectors straight and without force. Tighten any retaining screws by hand. Route cables without tension or sharp bends.
4. Connect sensors, the ECU and the corresponding ground leads to the intended terminals using suitable 4 mm banana plugs. Follow the assignment in Section 2.
5. Check the wiring and polarity. Then switch on the supplies and select the required operating mode in the Simulyzer software.

3.2 External connection

The opposite side is labelled “External Sensor / ECU IO”. It provides the onward connection for a daisy-chain setup. If required, use the second supplied ribbon cable and follow the connection diagram for the respective Simulyzer. Leave “External” unconnected when no such onward connection is required.

4 Operation and technical data

4.1 Operation and care

The box requires no user action during operation. Keep terminals and connectors clean and dry. Disconnect all connections before cleaning; wipe the housing with a soft, dry cloth.

If signals are missing or implausible, first disconnect power from the setup. Check that cables are seated correctly, terminals and ground connections are assigned correctly, and the required operating mode is selected on the Simulyzer. Stop using the box and contact Seskion if there is visible damage.

4.2 Technical data

Property	**Value**
Order number	9.0002
Compatible devices	PSI5, DSI3 and SENT Simulyzers
Design	Passive connection adapter
Laboratory connections	10 binding posts with 4 mm banana sockets
Simulyzer connection	25-pin D-sub socket
External connection	25-pin D-sub plug
Dimensions	120 × 78 × 43 mm
Housing material	Aluminium
Weight	0.320 kg
Operating temperature	0 to 40 °C
Relative humidity	Maximum 85 %, non-condensing

4.3 Contact

Seskion GmbH
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