Breakout Box BOB-X-50P

- Robust 4 mm standard jacks for measurement and diagnostic access
- High-current capability for demanding ECU and power applications
- Lightweight and durable aluminum housing
- Optimized signal integrity for high-speed communication interfaces
- Standard and fully customized configurations available

The Breakout box devices serve as essential tools for conducting comprehensive system tests. These devices separate individual wires from complex harnesses, making it easier to evaluate various systems and collect accurate data. They contribute to efficient troubleshooting and diagnostics across a range of applications, including automotive and aerospace.

Technical Specifications

Mechanical Data

Weight	300G
Enclosure material	Aluminum
Format	Portable / benchtop
Number of channels	50

Electrical Data

Rated operating voltage	60 DC
Continuous current / channel	5A
Total simultaneous current	30A
Operating temperature	0-60°C

Connectors and Wires

Equipment side connector	100 Pins Circular connector
Harness side connector	----
Measurement sockets	4mm Banana socket
Cable length	100 Cm
Wire cross section	0.5mm² / 24AWG

Functions and Interfaces

Circuit interruption	Jumper 4mm/14mm
Fault insertion	8A CC
Signal interfaces	CAN, LIN, DIO, PW, ANG

Ordering Information

Product reference	BOB-X-50P
Configuration	Standard universal breakout boxes
Included accessories	Jumpers, Output wired circular Connector

The RAYNOV Breakout Box is intended for use during ECU testing, measurement, diagnostics, validation, and troubleshooting activities. Connect the breakout box between the ECU and the corresponding DUT or test harness, then use the dedicated 4 mm measurement points to safely access the required signals. Ensure that all connections are correctly identified before energizing the system, and always respect the specified voltage, current, and isolation limits of the selected configuration. For high-current or sensitive communication signals, use only approved test leads and application-specific connection methods. The unit should be operated in a controlled test environment and disconnected from the power source before changing wiring, connectors, or configuration.

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