



Safety ensured by Pinch Force Measurement

DriveTest GmbH develops and produces test-systems for the world-wide use in the automotive and railway industry. As one of the pioneering companies in the field of pinch force measurement **DriveTest** offers a broad range of different systems for a variety of applications. Every system supports the control of applicable standards. The service comprises the consultation, maintenance and calibration of the measuring devices. Major customers include the Deutsche Bahn and many municipal transportation departments.

Developed by the IFA, former "Berufsgenossenschaftliches Institut für Arbeitsschutz – BGIA", **DriveTest's** original BIA Class 1 is an electronic pinch force measuring system for automatic railway doors, light rail and tramway doors and automatic bus doors. Combining rugged construction with precision, the advanced mechanical design delivers exact measurements, even after years of service in an industrial environment.

Periodic audits by the IFA guarantee the maintenance of high quality standards.

Vehicles with multiple doors call for fast and easy performance of repetitive measurements. **DriveTest** has responded to this requirement by developing software which streamlines the measurement process and drastically reduces documentation effort. Measurements made on a complete vehicle can be entered, printed as a table and stored in a database with a minimum of user entries.

The investment in an Original BIA Class 1 System repays itself within a short time.

- **Dependable** – developed and certified by the IFA (former BGIA)
- **Applicable standards** – EN 14752:2005, VDV 111, 2001/85/EG
- **Precision measurements** – six roller bearing force guide design
- **Robust construction** – casing manufactured from durable POM for long service life in industrial environments
- **Ease of Use** – single-button operation
- **Supplied with all components** – high-quality transportation case and software included, no additional items to purchase
- **Professional, feature-rich software** – PinchPilot offers complete functionality
- **Support for management of large vehicle pools** – integration in existing software infrastructure available



Sensor BIA Class 1

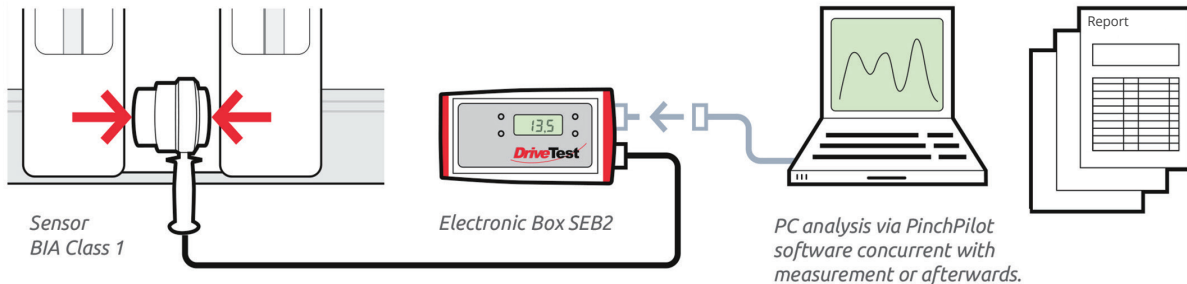
Measurement Range: 25–310 N
 Measurement: +/- 3 N or 3 %
 Tolerance: whichever is greater
 Stiffness: 10 N/mm
 Gap width: 115 mm
 Diameter: 100 mm
 Measurement Technique: Strain Gauge Bridge
 Size: 260 x 130 x 115 mm
 Weight: 2.1 kg

Electronic Box SEB2

- Data logging module (Electronic Box SEB2) with LCD display, LED states, button, and serial interface
- Optional PC controlled measurements
- Powered by 9 V bloc battery
- Onboard real time clock
- Storage for approx. 100 measurements
- Sensor and PC interfaces
- Display of peak force and effective force
- Pass/fail evaluation

PC-Analysis-Software PinchPilot

- Multi-Language (DE, EN, IT, FR, ES)
- Graphical display of force vs. time
- Calculation of relevant parameters
- Assessment with respect to different standards
- Support for user defined standards
- Printed reports
- Data export (Excel, CSV, PDF)



What's included?

- Sensor with 2.5 m connection cable
- Seperate data logging module (Electronic Box SEB2) with LCD display, LED states, button and serial interface
- 9 V battery
- Transportation case with foam inserts for ease of storage and transport
- PC connection cable (USB)
- USB memory stick with PinchPilot PC analysis software and documentation
- Users manual
- Calibration certificate



System Requirements for PC Analysis Pinch Pilot (included):

- Operating System Windows Vista, Windows 7, 8 and 10
- RAM ≥ 32 MB
- Free Disk Space ≥ 50 MB
- RS232- or USB interface

