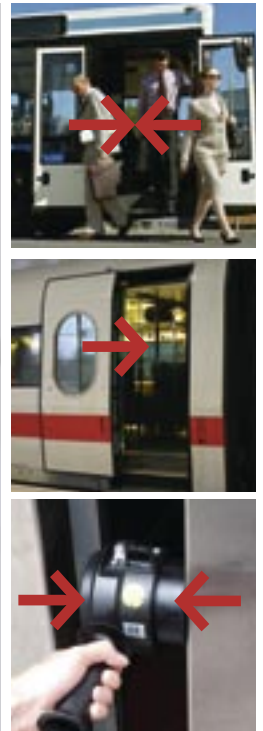


→ Pinch Force Measurement System for Bus and Railway Doors

## Original BIA Class 1 (electronic)

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www.si-instruments.com



### Safety ensured by Pinch Force Measurement

Developed by the "Berufsgenossenschaftlichen Institut für Arbeitsschutz – BGIA", the **Original BIA Class 1** from DriveTest 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 BGIA 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.

**DriveTest** is one of the pioneering companies in the field of pinch force measurement and offers a broad range of different systems for a variety of applications. In the area of railway vehicles and buses, major customers include the Deutsche Bahn and many municipal transportation departments.

- **Dependable** – developed and certified by the BGIA
- **Applicable standards** – EN14752, 2001/85/EG and § 35e Abs. 5 StVZO
- **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

# → Technical specifications Original BIA Class 1 (electronic)

## Sensor BIA Class 1 (electronic)

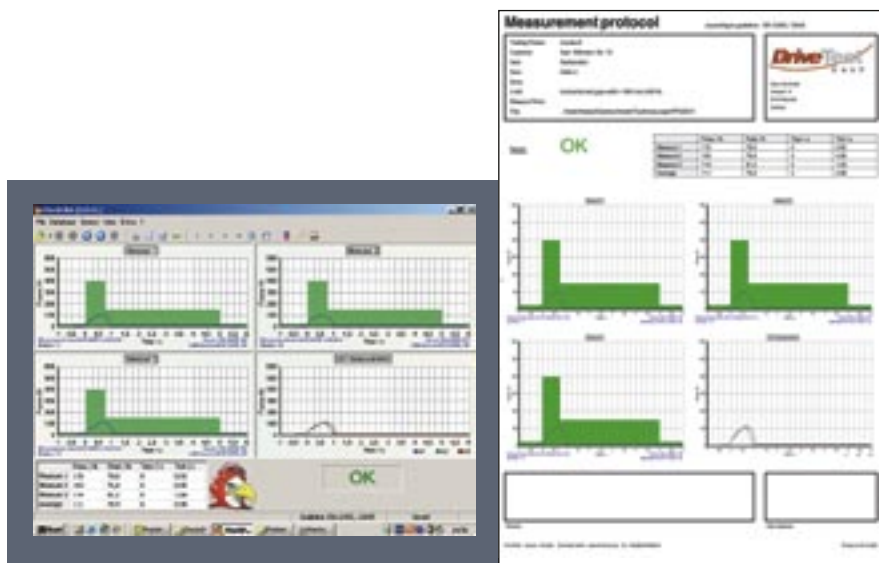
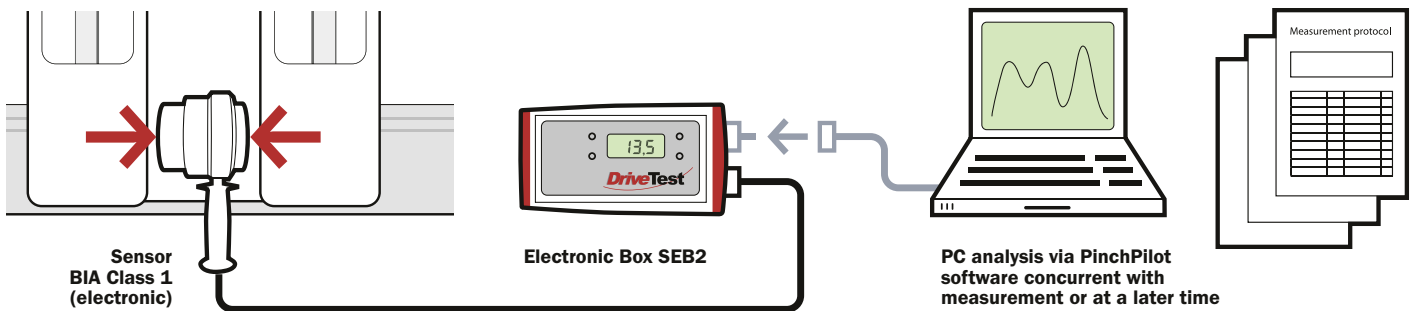
Measurement Range	20 – 310 N
Measurement Tolerance	+/- 3 N or 3 % whichever is greater
Stiffness	10 N/mm
Gap width	115 mm
Diameter	100 mm
Measurement Technique	Strain Gauge Bridge
Size	260 x 130 x 115 mm
Weight	2.1 kg

## Electronic Box SEB2

- Complete measurement unit in combination with sensor (PC optional when measuring)
- LCD Display
- Powered via one 9 V battery
- Onboard clock
- Storage for appr. 100 measurements
- Sensor and PC interfaces
- Displays peak force and pass/fail assessment

## PC Analysis Software PinchPilot

- Multi-Language (D, GB, I, F, E)
- 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, Word)



## PC Analysis Software PinchPilot (included)

### System Requirements

- Operating System Windows 98 SE, NT, 2000, XP
- CPU Pentium, ≥ 133 MHz
- RAM ≥ 32 MB
- Free Disk Space ≥ 50 MB
- CD ROM Drive
- RS232 or USB Interface

### What's included

- Sensor with 3.5 m connection cable
- Separate data logging module (Electronic Box SEB2) with LCD display, LED display, membrane input key, and serial interface
- 9 V Battery
- Aluminium transportation case with foam inserts for ease of storage and transport
- PC connection cable (RS232, USB)
- CD with PinchPilot PC analysis software and documentation
- Users Manual in English and German
- Calibration certificate



[www.drivetest.de](http://www.drivetest.de)

**DriveTest**