



## BPW BRAKE MONITOR for Disc Brake Axles

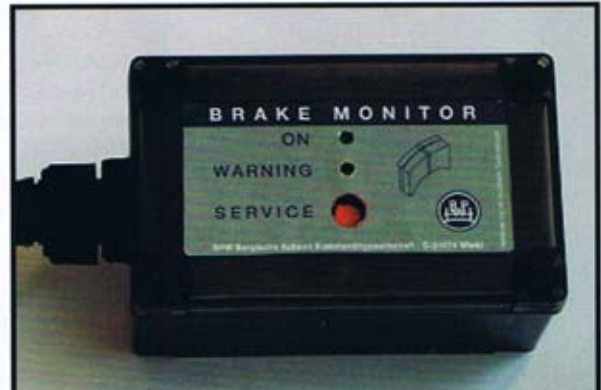
BPW has recognized a need for cost-effective brake monitoring solutions, especially for disc brakes, which has led to the development of the BPW Brake Monitor. With either disc or drum brakes, once the friction material wears out you get metal to metal wear, which can lead to an expensive repair as well as less than ideal retardation performance. The BPW Brake Monitor is designed to indicate when BPW disc brake axles have worn brake pads that need to be replaced, alleviating a costly repair and helping to maintain the safety benefit of disc brakes.

The benefits of the BPW Brake Monitor include:

- **Indication when pads should be inspected, and separate indication when the pads must be exchanged**
- **Highly robust system**
- **Modular design**
- **Operating voltage of 10V to 30V**
- **Potential to connect to external displays, eg. EBS**

The Brake Monitor is connected to all axles on the trailer using a modular design enabling easy and cost-effective connection to any trailer type. All connections in this system are made via a specially coated "distribution cable" using bayonet connections making it highly robust. The wear indication can be shown on additional display units, for example: connected to trailer EBS so the driver can get a warning signal in the cab of the prime mover.

The Brake Monitor is a great tool to have with disc braked trailers, it will provide the driver with an easy to read monitor, giving peace of mind when on the road.



BPW Brake Monitor Model BWI 03 indicates when the disc brake pads have to be replaced. The 3 levels of indication are as follows:








- 1) Green LED on: Unit is powered and the wear limit on the brake pads have not yet been reached.
- 2) Yellow LED flashing — *Warning* Signal: Brake pad material has been reduced to approx. 4mm, the brake pads and wear sensors should be serviced as soon as possible.
- 3) Service indicator changes to red and Green/Yellow LED flashing — *Service* Signal: Brake pad material has been reduced to approx. 2mm, the brake pads and wear sensors require immediate attention. The Service indicator will remain red even without voltage supply (eg. trailer uncoupled).

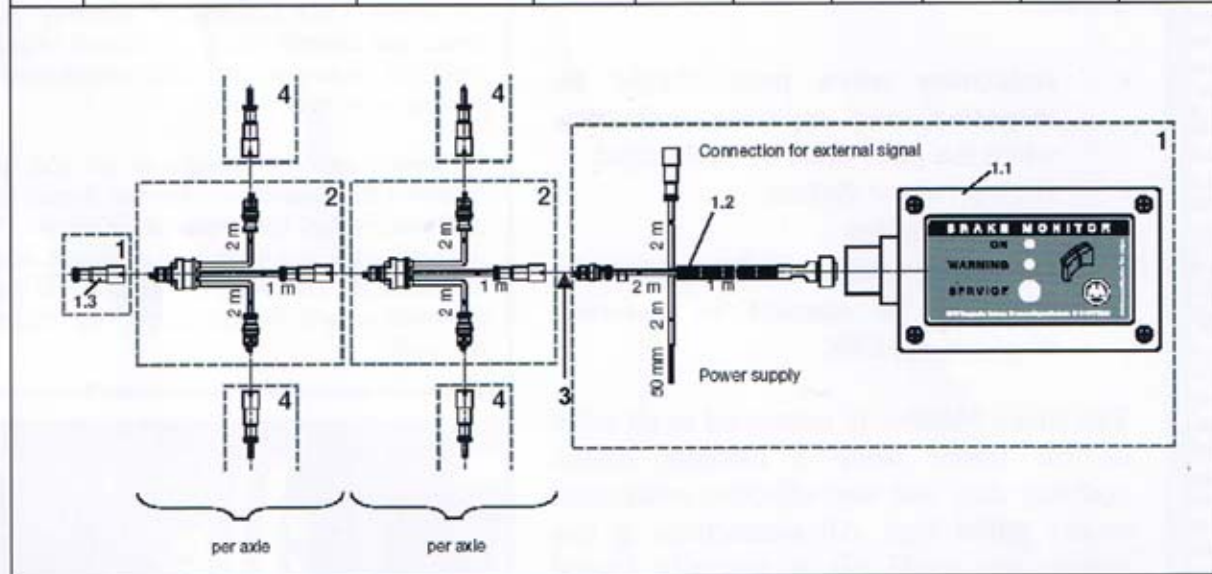


Sacrificial sensors are fitted to the brake pads on the axle, that provide user-friendly servicing of the sensors. The wear sensor cable is covered with a shield and fixed to the brake pad retention plate to offer a precise and secure installation.

# BPW BRAKE MONITOR

## BPW Brake Monitor Component List

Item	Description	Part Number	Quantity						
									
1	Basis Set Including: 1.1 Brake-Monitor 1.2 Connection Cable 1.3 Connecting Plug	0580160070 0203390100 0243125800 0237130800	1	1	1	1	1	1	1
2	Connection Module	0243125700	1	2	3	4	2	3	4
3	Extension 1m 3m 5m	0218192600 0218192500 0218192200					1 1 1	1 1 1	1 1 1
4	Wear Indicator Axle Set	0580151700	1	2	3	4	2	3	4



### Technical Data

#### Chemical Resistance

- UV stable

#### Size

Physical footprint of Brake Monitor 80mm x 130mm

#### Environmental Conditions

- Ambient Temperature -40°C to 60°C
- Moisture Protected
- Protection against EMC influences
- Cross-polarity safeguard

#### Electrical Data

- 10 to 30 V operating Voltage
- ≤ 30mA



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