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AGRO SENSE

Smart Tools for Efficiency

Custom Product Line



The brands of the BPW Group



BPW Agrar

Perfect is just enough.

BPW AGRO SENSE

The AGRO Sense product family offers sensor solutions for the agricultural industry, enabling farmers to engage in more efficient and sustainable farming practices to adapt to future challenges.

ABS - Anti-block System

Compliance with road regulations, enhanced safety, and reduced wear.

SDS - Speed and direction sensor

The foundation of precision steering and optimized field operations.

SAS - Steering angle sensor

Accurate steering angle data - optimised for electronic control systems.

ALS - Axle load sensor

Dynamic weight measurement.



BPW AGRO Hub 2.0

Dynamic weight measurement with ASL sensor



SCAN FOR DETAILS

Axle load sensor enables real-time monitoring and adjustment of load distribution, optimizing stability and performance for safer and more efficient operation.

High measurement accuracy

Reliable axle load data under all conditions.

Temperature stability

Consistent signal from -40°C to $+70^{\circ}\text{C}$.

Non-load-bearing design

Minimal wear, long service life.

Compact and protected

IP67 housing, AMP Superseal connector.

Integration-ready

4-20 mA output, compatible with existing ECUs.

Maintenance-free

Sealed design, no moving parts.

ALS - Axle load sensor



SAS – Steering angle sensor

Steering angle sensor is a key element of electronic force steering, integrated at the pivot point of BPW Agrar steering axles. It enables precise detection of the steering angle and allows seamless use of advanced sensors from leading manufacturers.



BPW AGRO Turn
Precision steering
via SAS sensor



Real-time steering data

Provides live steering angle input for precision farming and electric steering systems.

Improved vehicle control

Improves manoeuvrability, steering accuracy, and reduces driver fatigue.

Precise track guidance, reduced overlap

Optimises driving paths by minimising overlaps and skips in seeding, spraying, or fertilising.

Optimized input application

Ensures targeted use of seeds, fertilisers, and crop protection to reduce material waste.

Reliable under harsh conditions

Robust, enclosed design guarantees stable operation in wet, muddy, or dusty environments.

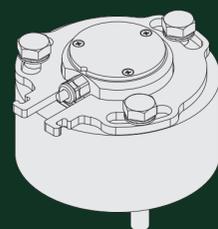
Easy integration – retrofit solution available

Retrofit solution easily added to existing machines without full system replacement.

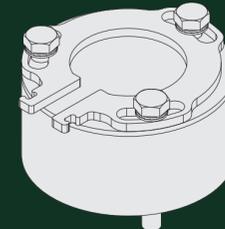
Sensor Options

Manufacturer	Type	GSLA 9000	GSLA 11000	GS(H)LL 12000	GS(H)LL 12000 AGT	GS(H)LL 14000
Mobil Elektronik	Current output	✓	✓	x	✓	✓
Mobil Elektronik	CAN output	✓	✓	x	✓	✓
Mobil Elektronik	Voltage output	✓	✓	x	✓	✓
Elobau	424RD111G070	✓	✓	x	✓	✓
Elobau	424A17A12001	✓	✓	x	✓	✓
Elobau	424A17A060	✓	✓	x	✓	✓
Elobau	other versions	On request, further discussion required				

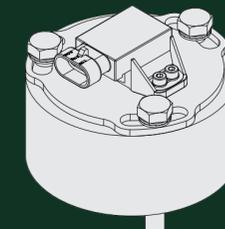
ME installed



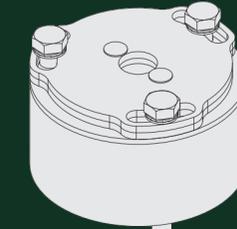
ME adapter



Elobau installed



Elobau adapter



Wheel sensors



Wheel sensors detect the rotating movement of the wheels. This information serves many safety and assistant systems as an important control variable. With few exceptions, BPW axles and suspension units can be ordered optionally with ready mounted ABS or Speed and Direction of rotation Sensor.

ABS

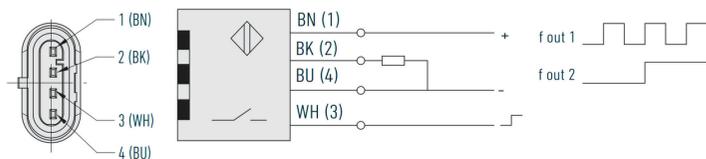
The Anti-lock Brake System (ABS) ensures for a shorter braking distance, the best possible drive stability and steering properties.

SDS

An essential component of the electronic forced steering system, the sensor not only detects rotational direction but also enables application rate optimisation. The specially designed bracket prevents twisting and ensures reliable performance. In addition, the SDS allows speed measurement from just 1 km/h, enabling accurate determination of direction and speed of rotation even at very low movements.

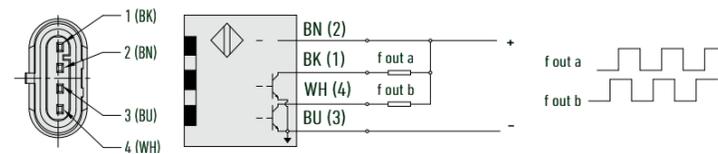
Type PNP

Separate channels for speed and direction of rotation



Type NPN

Direction of rotation is detected by the software



PRECISION SENSORS. SEAMLESS FIT.

BPW sensor solutions are built to fit your system – preinstalled, prepared for retrofitting, or fully tailored. Modular design and combined sensor types ensure seamless integration into agricultural applications.

- ✓ Up to four different sensor types – combined or retrofitted as required. Available with factory-installed
- ✓ Sensors for fast and easy integration. Sensor-ready configurations for
- ✓ Flexible, retrofit installation. Dual sensor brackets – up to four
- ✓ Sensors per axle, high compatibility ensured.

