

## Pressure Transducer



### Product Features and Advantages:

- ▶ tight, non-corroding
- ▶ high overload, shock-proof
- ▶ no dead room
- ▶ simple mounting
- ▶ output: 0 ... 20mA; 4 ... 20 mA; 0 ... 10V
- ▶ excellent reproducibility and linearity
- ▶ suitable for wet areas and harsh environments
- ▶ flange receptacle with gold-contacts on request
- ▶ operating temperature : -50 ... + 120 (higher values on request)
- ▶ 0.1% or 0.05% combined error
- ▶ 10; 25; 50; 100; 250; 500; ... 2500 bar (standard); other values on request
- ▶ ATEX – certified available
- ▶ customer specific design for safety-critical applications on request

### Typical applications:

Static and dynamic pressure measuring in hydraulic or pneumatic machine control systems e.g. adjusting the roll gap in rolling mills; remote adjustment of ZERO and SPAN via separate feeding-card possible (W-series)

## Dr. Brandt GmbH

Measuring mechanical values electrically

- ▶ Force, weight, torque and pressure measurement technology
- ▶ Non-destructive testing systems for wire-ropes, flat-ropes and conveyor belts
- ▶ Custom tailored load cells and 3rd party replacements
- ▶ Technology leader in the field of high-precision measuring systems
- ▶ Our company is also a specialist furnishing and integrating spare parts or retrofitting existing installations, particularly in rolling mills or processing lines
- ▶ Dr. Brandt GmbH is ISO 9001: 2015 certified and has an ATEX certification for safety critical applications
- ▶ Successful since almost 70 years in the metal and heavy industry

## Load Bolts



### Use:

LB-series (1-axle): Force measuring across the bolt axis in the direction marked by an arrow.

LBB-series (2-axes): Measuring load torque, band tension, rope tension combined with analog or digital control (measuring force and ist direction)

LBE-series: customer specific design for nominal loads up to 2000 tons also available for weighing systems for Bunker-/ Crane-scales, platforms.

As electronic overload protection (LMS) for lifts, cranes, dredges and cars available. Special protection (stainless steel or others) for outlet cable.

### Standard Design:

Shearing areas between bearings are grooved. At least one outside end has a straight groove for an axis holder preventing turning and sliding. Customer specific design on request.

### Product highlights:

- ▶ easy to mount, quick exchange
- ▶ suitable for rough and wet environment
- ▶ overload capacity up to 250% (higher on request)
- ▶ excellent linearity
- ▶ combined error 0.5% or 0.25%
- ▶ each model available as LBB
- ▶ sea-waterproof body on request
- ▶ available for use in nuclear premises or other highly safety critical applications (double redundancy)
- ▶ available for expl.-protected areas e.g. use in mining industry
- ▶ measuring range from 0.5 tons ... 2000 tons
- ▶ any customer specific design on request

