

Pressure transducer, abrasive, type 0310

For the pressure monitoring of abrasive media

BROSA pressure transducers for abrasive media are remarkable for their extraordinary abrasion resistance and are ideally suited for applications requiring a high long-term stability under the harshest conditions. Thanks to their very robust stainless steel welded construction they are also extremely resistant to shock and vibrations. Especially in the area of constructions machines the pressure transducers are characterised by a flawless operation and reliability. The integrated electronic system works very exact under extreme EMC conditions and within the compensated temperature range.

Applications

- Concrete pumps
- Solid pumps
- Drilling equipment
- Special machines

Features

- Customer-specific design
- Integrated amplifier
- High overload capacity
- Durable design (verification on request)
- Temperature compensated
- High EMC resistance



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Technical data

Accuracy	≤ 0.5 % FS
Measurement range	5 to 400 bar
Limit pressure	≤ 150 %, optional 300 %
Burst pressure	≤ 300 %, optional 500 %
Linearity error	≤ 0.5 % FS
Hysteresis	≤ 0.5 % FS
Reproducibility	≤ 0.1 % FS
Temperature range	-40 to +80 °C
Temperature coefficient	≤ 0.0035 % / K
Supply voltage	9 to 36 VDC
Output signal	4 to 20 mA, optional redundant CANopen, optional safety PROFINET, optional PROFIsafe IO-Link optional redundant PL c
Protection class	IP 67, optional IP 69K, according to DIN EN 60529
Interference immunity	Up to 200 V/m HF, 100 mA BCI according to ISO 11452, DIN EN 61000-4, ISO 7637
Emission	DIN EN 55025
Climatic tests	DIN EN 60068-2
Vibration resistance	DIN EN 60068-2
Electrical connections	M12 × 1, 5-pins
Electrical protection classes	Reverse polarity protection, overvoltage protection and short-circuit protection
Material	Stainless steel

Options

Safety classification according to DIN EN ISO 13849-1	PL c, PL d (PI e)
Explosion protection	ATEX Ex i
Passive design	Output ~ 1 mV / V



ISO 9001
ISO 14001



94/9/EG