

Pressure transducer, abrasive, type 0310

For the pressure monitoring of abrasive media

BROSA pressure transducers for abrasive media impress with their exceptional abrasion resistance and are ideal for applications with high long-term stability under the toughest conditions. Thanks to their particularly robust stainless steel welded construction, they are also particularly resistant to shock and vibration. Especially in the construction machinery sector, the pressure transducers are characterized by perfect function and reliability. The integrated electronics work extremely accurately under extreme EMC conditions and in 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
Measuring range type 0310	5 bar to 400 bar
Limit load	≥ 150 %, optional 300 %
Breaking load	≥ 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
Degree of protection	IP 67, optional IP 69, 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
Interference emission	DIN EN 55025
Climatic tests	DIN EN 60068-2
Vibration resistance	DIN EN 60068-2
Electrical connections	M12x1, 5-pins
Electrical protection	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 (PL e*)
Explosion protection	ATEX Ex i
Ex classification	II 2G Ex ib IIC T4 Gb / IECEx Ex ib IIC T4 Gb
Passive Design	Output ~ 1 mV / V

Other requirements can be implemented by agreement.

* When used in higher-level systems according to DIN EN ISO 13849-1



ISO 9001
ISO 14001



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