

Pressure transducer, type 0301

For the pressure monitoring in hydraulic systems

Thanks to their especially robust stainless steel welded design, BROSA pressure transducers are extremely resistant to shock and vibrations. Their special construction allows for a high long-term stability under the harshest conditions. Especially in the area of mobile hydraulic systems 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. In addition to the standard pressure connection design it is possible to meet individual customer requirements.

Applications

- Cranes
- Lifting systems
- Production lines
- Machine construction

Features

- Customer-specific design
- Integrated amplifier
- High overload capacity
- Designed for endurance strength
- Temperature compensated
- High EMC resistance



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Technical data

Accuracy	≤ 0.5 % FS
Measurement range	2 to 1000 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
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
Climate tests	DIN EN 60068-2
Vibration resistance	DIN EN 60068-2
Electrical connections	M12x1, 4-pins
Electrical protection classes	Reverse polarity protection, overvoltage protection and short-circuit protection
Material	Stainless steel

Options

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



ISO 9001:2008
ISO 14001:2004



94/9/EG