

Pressure transducer, type 0301

For the pressure monitoring in hydraulic systems
As type 0320 also in a high-pressure version

BROSA pressure transducers are extremely shock and vibration resistant thanks to their particularly robust stainless steel welded construction. Their special design allows them to be used with high long-term stability under the toughest conditions. Particularly in the mobile hydraulics sector, the pressure transducers are characterized by flawless functionality and reliability. The integrated electronics work extremely accurately under extreme EMC conditions and in the compensated temperature range. In addition to the version with standard pressure connection, individual customer requirements can also be implemented.

Applications

- Cranes
- Lifting systems
- Production lines
- Machine construction

Features

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



Pressure transducer, type 0301 / 0320

Technical data

Accuracy	≤ 0.5 % FS
Measuring range type 0301	10 bar to 1000 bar
Measuring range type 0320	1000 bar to 5000 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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