

Angle sensor MEMS, type 0804

Robust MEMS technology for your angle measuring

BROSA angle sensors are characterized by their high long-term stability and accuracy. The high-quality finish and the use of robust MEMS technology provide decisive advantages. The MEMS technology used can withstand shocks of up to 3500g during operation. Other impressive features include a high measuring accuracy, extreme vibration resistance and low height for a wide range of applications.

Applications

- Cranes
- Construction machines
- Machine construction

Features

- Customer-specific design
- Integrated amplifier
- Temperature compensated
- High EMC resistance



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Technical data

Resolution	0.01°
Accuracy	≤ ±0.3°
Measurement range	0 to 360°, 0 to 90°, 0 to 180° optional other measurement ranges
Linearity error	≤ ±0.1°
Hysteresis	≤ ±0.1°
Reproducibility	≤ ±0.1°
Temperature range	-40 to +80 °C
Temperature coefficient	≤ 0,0046 % / °K
Supply voltage	9 to 36 VDC
Output signal	4 to 20 mA, optional redundant CANopen, optional Safety
Degree of protection	IP 67 according to DIN EN 60529
Interference immunity	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	Aluminium, saltwater-proof optional stainless steel

Options

Safety classification according to DIN EN ISO 13849-1 PL c, PL d (PL e*)

Other requirements can be implemented by agreement.

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



ISO 9001
ISO 14001