

QG30 INCLINATION SENSOR, SINGLE AXIS

QG30-KI-010E-AV-K

Inclination sensor, +/-10°, 0,5-4,5 V, single axis

- Single axis
- $\pm 10^\circ$, $\pm 30^\circ$ or $\pm 90^\circ$, other measuring ranges available
- Output 0,5-4,5 V or 4-20 mA
- IP67 rated



PRODUCT DESCRIPTION

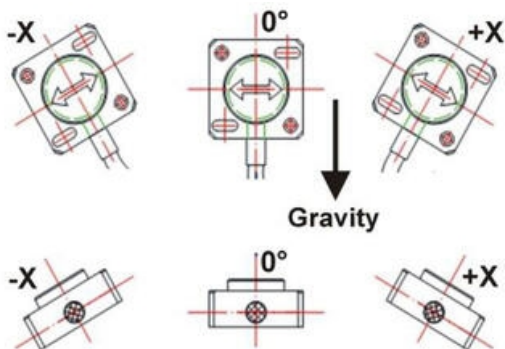
QG-series inclinometers measure the angle with respect to the direction of the force of gravity in one or two axes. Inclinometers from the DIS Sensors QG series are based on robust MEMS technology, and their modular design makes it easy to optimize each sensor for a specific application. What's more, for certain models, the handy configurator enables the end customer to easily adjust the sensor according to preference.

Inclinometers are used in various applications where angle measurement is crucial, such as concrete pumps, cranes, elevated work platforms, solar panels, air suspension systems and agricultural machinery. Housing options include plastic, aluminium and stainless steel.

Technical specifications

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|---------------------------------|--|
| Inclination sensor, single axis | $\pm 10^\circ$, $\pm 30^\circ$, $\pm 90^\circ$, 360° , measuring range also programmable |
| Inclination sensor, twin axis | $\pm 10^\circ$, $\pm 30^\circ$, $\pm 90^\circ$, measuring range also programmable |
| Acceleration sensors | $\pm 0,26 \text{ G} \dots \pm 16 \text{ G}$ |
| Supply voltage | 5 V DC or 10-30 V DC |
| Output | 0,5-4,5V or 4-20 mA, PNP/NPN, CANopen, ask for PNP/NPN types |
| Resolution | Up to 0,003 G |
| Housing protection | IP67 |

Measurement orientation



SPECIFICATIONS

TECHNICAL DATA

| | |
|------------------------|-----------|
| Measuring Range | ±10° |
| Number of axis | 1 |
| Output | 0,5-4,5 V |
| Connection Thread | Cable |
| Voltage DC max | 30 V |
| Voltage DC min | 10 V |
| IP Class | IP67 |
| Central Material | Plastic |
| Width | 30 mm |
| Length | 30 mm |
| Height | 15 mm |
| Accuracy | 0.3 ° |
| Resolution | 0.03 ° |
| Temperature effect | 0.01 °/K |
| Temperature range from | -25 °C |
| Temperature range to | 85 °C |
| Approvals | CE |

