H-series

QG30-KI-010H-AV-K

Inclination sensor

1 axis

Non-programmable device

Output: 0.5 - 4.5 V

horizontal/vertical mounting

For demanding applications

Measuring range ± 10°

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**General specifications** 10111, v20180111

Plastic injection molded housing (Arnite T06 202 PBT black)

30x30x15 mm

Included: 2x M3x16 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500C)

IP67

0 - 100%

approx. 15 gram (cable excluded)

10 - 30 V dc

Yes

≤ 30 mA

-25 .. +80 °C

-25 .. +80 °C

± 10°

No

0 - 18 Hz (±10 Hz)

overall 0.3° typ. (offset excluded)

< ± 1° typ. (< ± 3° max.)

< ± 0.2°

< ± 2% typ. (< ± 3.5% max.)

0.01°

± 0.01°/K typ

20.000g

0.5 - 4.5 V

Rload ≥20kΩ, Cload ≤20 nF

Yes (max 10 s)

0.1°

not applicable
**QG30-KI-010H-AV-K**

<table>
<thead>
<tr>
<th>Transfer characteristic</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ V_{out} = 2.5 + 11.52 \sin(\alpha) \text{ [V]} ]</td>
</tr>
<tr>
<td>Output clipping outside measuring range at 0.3 V and 4.7 V approximately</td>
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</tbody>
</table>

**Measurement orientation**

The QG30 can be used in both vertical and horizontal mounting position.

**Connectivity (length ±10%)**

<table>
<thead>
<tr>
<th>Connection</th>
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<tbody>
<tr>
<td>2 m PVC/PVC Liyy, black Ø 4.6 mm, wires: 3x0.34 mm²</td>
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<table>
<thead>
<tr>
<th>Wire / pin coding</th>
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</thead>
<tbody>
<tr>
<td>Brown</td>
</tr>
<tr>
<td>Black</td>
</tr>
<tr>
<td>Blue</td>
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**Mechanical dimensions (indicative only)**

**Remarks**

As this device is accelerometer-based the sensor is inherent sensitive for accelerations/vibrations. Application specific testing must be carried out to check whether this sensor will fulfill your requirements.