QG series

QG30-KI-030H-AV-K-5V

Inclination sensor
1 axis
Non-programmable device
Output: 0.5 - 4.5 V
horizontal/vertical mounting
For demanding applications
Measuring range
± 30°

H-series

H-30

General specifications 04711, 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)
5 V dc
≤ 30 mA
-25 .. +80 °C
-25 .. +80 °C
± 30°
No
0 - 18 Hz (±10 Hz)
overall 0.6° typ. (offset excluded)
< ± 1° typ. (< ± 3° max.)
< ± 0.4°
< ± 2% typ. (< ± 3.5% max.)
0.01°
± 0.01°/K typ
20.000g
0.5 - 4.5 V Ratiometric
Rload ≥20kΩ, Cload ≤20 nF
Yes (max 10 s)
0.1°
not applicable
**QG30-KI-030H-AV-K-5V**

### Transfer characteristic

\[ U_{out} = 2.5 + 4\sin(\alpha) \text{ [V]} \]

Output clipping outside measuring range at 0.3 V and 4.7 V approximately.

### Measurement orientation

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

### Connectivity (length ±10%)

2 m PVC/PVC Lyy, black Ø 4.6 mm, wires: 3x0.34 mm² Sensor colors (static usage)

<table>
<thead>
<tr>
<th>Wire / pin coding</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown</td>
<td>+ Supply Voltage</td>
</tr>
<tr>
<td>Black</td>
<td>Output</td>
</tr>
<tr>
<td>Blue</td>
<td>Gnd</td>
</tr>
</tbody>
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### Mechanical dimensions (indicative only)

![Mechanical dimensions](Image)

### 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 fulfil your requirements.