MAGNETIC INCREMENTAL MODULAR SENSORS, HCW4 RANGE

• With its two-part design, the HCW4 incremental sensor offers maximum flexibility when installing it.
• Application fields: agriculture, construction, forestry vehicles, medical, solar panels...
• Robustness and excellent resistance to shocks / vibrations.
• Standard IP 67 protection (IP69K option).
• Operating temperature range: -40°C to 85°C (-40..+125°C option).
• Magnetic technology.
• Universal supply 5 to 30Vdc – incremental output.
• Available resolution up to 1024 points per revolution.
• Standard PVC or PUR cable output.

MECHANICAL DATA

<table>
<thead>
<tr>
<th>Material</th>
<th>Macromelt OM638</th>
<th>Protection</th>
<th>IP 67</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encoder weight (approx.)</td>
<td>0,100 kg</td>
<td>Shocks (EN60068-2-27) ≤ 2000m.s²</td>
<td>≤ 2000 m.s² (during 6 ms)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>- 40... + 85 °C</td>
<td>Vibrations (EN60068-2-6) ≤ 200m.s²</td>
<td>≤ 200m.s² (55...2000 Hz)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>- 40... + 85 °C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ADAPTATION POSSIBILITY

BEI Sensors distinguishes itself by its flexible approach and ability to react to customers needs, with us no limit exists; we shall always try to supply you the product offering the best solution to your specifications.

**Modified mechanics:** Precision prototypes units, small and medium size. Units that will match themselves exactly to your mechanical configuration or to your dimensional constraints.

**Specific shaft system:** for example with integrated coupling.

**Send us your subset:** we can integrate our encoder into your subset and return you the complete assembly with the guarantee of an optimal mounting.

**Connection / Cable assemblies:** On the whole range of our sensors a wide selection of electrical connections are possible.
**MAGNETIC INCREMENTAL MODULAR SENSORS, HCW4 RANGE**

**OUTPUT ELECTRONIC / POWER SUPPLY**

**2G2 electronic (100kHz)**
- Supply: 5Vdc ± 10%
- Cons. without load: 40mA max
- Current per channel: 40mA max
- 0 max (Is=20mA): V奥 = 0.5Vdc
- 1 min (Is=20mA): V奥 = 2.5Vdc

**PG5 electronic (100kHz)**
- Supply: 5 to 30Vdc
- Cons. without load: 40mA max
- Current per channel: 40mA max
- 0 max (Is=20mA): V奥 = 0.5Vdc
- 1 min (Is=20mA): V奥 = Vcc - 2.5Vdc

Protection against short circuits and inversion of polarity for the electronic PG5.

**STANDARD CONNECTION**

<table>
<thead>
<tr>
<th>G3</th>
<th>PVC cable 8 wires 8230/020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-</td>
</tr>
<tr>
<td>WH</td>
<td>white</td>
</tr>
<tr>
<td>GP</td>
<td>PUR cable 12 wires 8230/050</td>
</tr>
<tr>
<td></td>
<td>WH white + WH/GN white/green</td>
</tr>
</tbody>
</table>

**ORDERING REFERENCE** (Contact the factory for special versions, ex: stainless steel version, connections...)

<table>
<thead>
<tr>
<th>Mechanics</th>
<th>Supply stage</th>
<th>Signals</th>
<th>Resolution</th>
<th>Connection</th>
<th>Connection orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCW4: Incremental encoder</td>
<td>2G2: 5Vdc TTL / RS422 output</td>
<td>9: A, A/, B, B/, 0, 0/</td>
<td>1024: max</td>
<td>G3: PVC cable 8 wires</td>
<td>R020: Radial cable 2m</td>
</tr>
<tr>
<td>PG5: 5 to 30Vdc Push-pull output (TTL / RS422 available if encoder supply is 5Vdc)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ex: HCW4_ 00 // PG5 9 // 01024 // G3 R020

**AVAILABLE RESOLUTIONS**

32 64 128 256 1024

Made in FRANCE