**INCREMENTAL ENCODERS, JHK5 RANGE**

- Blind shaft version Ø14mm, with reduction hubs in aluminium of 6, 8, 10 and 12 mm,
- Easy mounting thanks to DAC 9445/024 (Anti-Coupling Device),
- Robustness and excellent resistance to shocks / vibrations,
- High protection level IP65,
- Resolutions available: up to 2,500 ppr,
- Unbreakable Polyfass disc (Mylar-Mica composite),
- Compact design.

**JHK5_10 connection G3R (radial cable), DAC 9445/024 mounted on body**

**JHK5_14 connection G6R (radial M23), DAC 9445/024 mounted on body**

Minimum shaft depth: 12mm for optimal centring

<table>
<thead>
<tr>
<th>Material</th>
<th>Cover: zinc alloy</th>
<th>Body: aluminium</th>
<th>Shaft: stainless steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearings</td>
<td>6 803 serie</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximal loads</td>
<td>Axial: 20 N</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Radial: 50 N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shaft inertia</td>
<td>≤ 2.2.10⁻⁴ kg.m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Torque</td>
<td>≤ 6.10⁻³ N.m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permissible max. speed</td>
<td>9 000 min⁻¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous max. speed</td>
<td>6 000 min⁻¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shocks (EN60068-2-27)</td>
<td>≤ 500 m.s⁻² (during 6 ms)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Vibrations (EN60068-2-6)  | ≤ 100 m.s⁻² (55 ... 2 000 Hz) |
| EMC                      | EN 50081-1, EN 61000-6-2   |
| Isolation                | 1 000 V eff               |
| Encoder weight [approx.] | 0.300 kg                  |
| Operating temperature    | -20 ... + 80°C (encoder T°) |
| Storage temperature      | -30 ... + 80°C            |
| Protection (EN 60529)    | IP 65                     |
| Torque (ring pressure screw) nominal: 1.5 N.m, break: 2.0 N.m |
| Theoretical mechanical lifetime 10⁶ turns (F axial / F radial) |
| 10N / 25N                | 20N / 50N                |
| 230                      | 29                       |

Changes possible without further notice - Version 2.0
**DIGITAL OUTPUT SIGNALS (SQUARE WAVE SIGNALS)**

<table>
<thead>
<tr>
<th>Encoder</th>
<th>G6</th>
<th>2G2</th>
<th>5G2</th>
<th>5GT</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS422</td>
<td>2G electronic</td>
<td>2G2 electronic</td>
<td>5G2 electronic</td>
<td>5GT electronic</td>
</tr>
<tr>
<td>5Vdc ± 10%</td>
<td>Supply : 5 Vdc ± 10%</td>
<td>Current per channel : 40 mA max</td>
<td>Current per channel : 50 mA max</td>
<td>Current per channel : 75 mA max</td>
</tr>
<tr>
<td>0 max (I=20mA) : V_{di} = 0.5 Vdc</td>
<td>Cons. without load : 75 mA max</td>
<td>Cons. without load : 75 mA max</td>
<td>Cons. without load : 75 mA max</td>
<td></td>
</tr>
<tr>
<td>1 min (I=20mA) : V_{on} = 2.5 Vdc</td>
<td>Current per channel : 40 mA max</td>
<td>Current per channel : 40 mA max</td>
<td>Current per channel : 40 mA max</td>
<td></td>
</tr>
<tr>
<td>PG5</td>
<td>PGS electronic</td>
<td>PGS electronic</td>
<td>5GT electronic</td>
<td></td>
</tr>
<tr>
<td>Supply : 5 to 30 Vdc</td>
<td>Supply : 11 to 30 Vdc</td>
<td>Supply : 11 to 30 Vdc</td>
<td></td>
<td></td>
</tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

The 5GT electronic can drive long lengths of cables (consult us).

Protection against short circuits of the electronics: PG5, 5GT

Protection against reverse polarity for all the electronics except 2G2

**STANDARD CONNECTION**

<table>
<thead>
<tr>
<th>-</th>
<th>+</th>
<th>A</th>
<th>B</th>
<th>0</th>
<th>A/</th>
<th>B/</th>
<th>0/</th>
<th>Ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>G6</td>
<td>12 pins CW</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7 8</td>
</tr>
<tr>
<td>G3 PVC</td>
<td>cable 8 wires</td>
<td>8230/020</td>
<td>WH</td>
<td>white</td>
<td>BN</td>
<td>brown</td>
<td>GN</td>
<td>green</td>
</tr>
</tbody>
</table>

**ORDERING REFERENCE**

(Contact the factory for special versions, ex: electronics, special flanges, connections...)

<table>
<thead>
<tr>
<th>Shaft ø</th>
<th>Available resolutions</th>
<th>Signals</th>
<th>resolution</th>
<th>Connection</th>
<th>Orientation:</th>
<th>Accessory</th>
</tr>
</thead>
<tbody>
<tr>
<td>JHK5</td>
<td>06 : 6 mm up to 14 : 14 mm</td>
<td>15 mm option</td>
<td>2,5 Vdc</td>
<td>11 to 30 Vdc</td>
<td>5 : 5 to 30 Vdc</td>
<td>2,500</td>
</tr>
</tbody>
</table>

Available resolutions:

Wild solutions are available in Digisine™ technology.

Made in France

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