- With 200mm diameter, especially for heavy duty, extreme resistance to shocks/vibrations and to axial and radial charges
- Stainless steel body, treated against corrosion
- Digital incremental output, analog output in option (tacho-encoder, optotacho)
- Water cooling flange as option
- Max control function as option: shock detection, vibration, temperatures
- Double shaft output as option
- Duplex version with 2 opto-electronics redundant system

Application fields: glass, steel, cement-mills, platform marine, locks...

**GHML (simple version)**

**GHDD (Duplex version with double shaft output)**

**Material**

<table>
<thead>
<tr>
<th>Cover</th>
<th>Body: steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft</td>
<td>Stainless steel</td>
</tr>
</tbody>
</table>

**Bearings**

- 6004 serie

**Maximum loads**

- Axial: 200 N
- Radial: 200 N

**Shaft inertia moment**

- Simple: $50 \times 10^{-4}$ kg.m²
- Duplex: $200 \times 10^{-4}$ kg.m²

**Torque**

- $\leq 30 \times 10^{-3}$ N.m

**Permissible max. speed**

- 6 000 min⁻¹

**Continuous max. speed**

- 3 600 min⁻¹

**Shocks (EN60068-2-27)**

- $\leq 500$ m.s⁻² [during 6ms]

**Vibrations (EN60068-2-6)**

- $\leq 200$ m.s⁻² [10 … 1 000 Hz]

**EMC**

- EN 50081-1, EN 61000-6-2

**Isolation**

- 1 000 V eff

**Encoder weight (approx.)**

- Simple version: 10kg
- Duplex version: 15kg

**Operating temperature**

- -20… + 80 °C (encoder T°)

**Storage temperature**

- -40… + 80 °C

**Protection (EN 60529)**

- IP 65

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Changes possible without further notice - Version 2.0
Electronics 5GT is designed for long and high capacity cables (contact our factory)

Available in option:
- 3G3 electronic, supply between 15 and 30Vdc, push-pull output regulated 12Vdc
- 5G electronic permits to drive different inputs (plc + display for example)

Protection against short circuits the electronics: 5G5, 5GT, 3G3
Protection against inversion of polarity for all the electronics except 2G2

**STANDARD CONNECTION**

<table>
<thead>
<tr>
<th>Ground</th>
<th>-</th>
<th>+</th>
<th>A</th>
<th>B</th>
<th>0</th>
<th>A/</th>
<th>B/</th>
<th>0/</th>
</tr>
</thead>
<tbody>
<tr>
<td>connector body</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>connector body</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

**ORDERING REFERENCE**

[Contact the factory for special versions ex: electronics, special flanges, connections ...]

**Shaft Ø** | **Available electronic** | **Output signal** | **Resolution** | **Connection** | **Connection orientation**
---|---|---|---|---|---
14.14mm | 2G2, 5G2, 5G5, 5GT, 5GH, 3G3 | Supply | 10 000 max | G6: M23 12 pins CW | R: radial
| | | Output stages | | G5: M23 12 pins CCW |
| | | G2: driver 5Vdc RS422 | | G8: M23 12 pins CCW |
| | | G3: driver 12Vdc | | |
| | | G5: push-pull | | |
| | | G7: push-pull 11-30Vdc | | |
| | | G9: push-pull 11-30Vdc | | |
| | | 150 mA | | |
| | | 9: A/A, B/B, C/0, C/A & B/0 | | |

**Ex: GHML** | 14 | 5 | G5 | 9 | 5 000 | GP | R020

GHML: simple shaft output, standard
GHDL: double shaft output, standard
GHMD: simple shaft output, duplex
GHDD: double shaft output, duplex


Made en FRANCE

Changes possible without further notice - Version 2.0