The GOEMS16 is an ultra heavy duty encoder. The conception is adapted to severe shock and shaft loading conditions. The optics and electronics are supported in shock absorbing material within the heavy cast outer housing. The encoder is equipped with high load capacity bearings.

**GOEMS16 - G6A connection (axial M23) - 180 x 65 Base mounted Feet**

**MECHANICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Material</th>
<th>Cover: stainless steel 303</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Body: nicoled steel</td>
</tr>
<tr>
<td>Shaft</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Bearings</td>
<td>6004</td>
</tr>
<tr>
<td>Maximal loads</td>
<td>Axial: 250 N</td>
</tr>
<tr>
<td></td>
<td>Radial: 500 N</td>
</tr>
<tr>
<td>Shaft inertia moment</td>
<td>≤ 8.10^4 kg.m²</td>
</tr>
<tr>
<td>Torque</td>
<td>≤ 30.10^3 N.m</td>
</tr>
<tr>
<td>Permissible max. speed</td>
<td>6 000 min⁻¹</td>
</tr>
<tr>
<td>Continuous max. speed</td>
<td>4 000 min⁻¹</td>
</tr>
<tr>
<td>Shaft seal</td>
<td>NBR</td>
</tr>
</tbody>
</table>

Shock (EN60068-2-27) ≤ 500 m.s² (during 6ms)
Vibration (EN60068-2-6) ≤ 200 m.s² (10 ... 1 000 Hz)
EMC EN 50081-1, EN 61000-6-2
Isolation 1 000 Veff
Weight 6.0 kg
Operating temperature - 20 ... + 80 °C (Encoder T°)
Storage temperature - 40 ... + 80 °C
Protection (EN 60529) IP 67

Theoretical mechanical lifetime \( \frac{F_{axial}}{F_{radial}} \)

| 125 / 250 | 24.10⁶ Revolutions |
| 250 / 500 | 2.1.10⁸ Revolutions |

Changes possible without further notice - Version 121022
INCREMENTAL ENCODERS, GOEMS16 RANGE, 180 x 65 BASE MOUNTED FEET

OUTPUT ELECTRONIC / SUPPLY

2G2 electronic (100kHz)
Supply : 5Vdc ±10%
Cons. without load : 100mA max
Current per channel : 40mA max
0 max (Ig=20mA) : Vio = 0.5Vdc
1 min (Ig=20mA) : Von = 2.5Vdc

5G2 electronic (100kHz)
Supply : 11 to 30Vdc
Cons. without load : 75mA max
Current per channel : 40mA max
0 max (Ig=20mA) : Vio = 0.5Vdc
1 min (Ig=20mA) : Von = Vcc-3Vdc

5GT electronic, optional (100kHz)
Supply : 11 to 30Vdc
Cons. without load : 75mA max
Current per channel : 40mA max
0 max (Ig=20mA) : Vio = 0.5Vdc
1 min (Ig=20mA) : Von = Vcc-2.5Vdc

5G5 electronic (100kHz)
Supply : 11 to 30Vdc
Cons. without load : 75mA max
Current per channel : 40mA max
0 max (Ig=20mA) : Vio = 0.5Vdc
1 min (Ig=20mA) : Von = Vcc-3Vdc

STANDARD CONNECTION

ORDERING CODE

Available in option:
- 3G3 electronic, supply between 15 and 30Vdc, push-pull output regulated 12Vdc,
- 5GH electronic permits to drive different inputs (PLC + display for example).
Protection against short circuits for electronics: 5G5, 5GT, 3G3.
Protection against polarity inversion for all electronics except 2G2.

AVAILAble RESOLUTIONS

Made in FRANCE

Changes possible without further notice - Version 12/2022