Series PA 02

- Incremental rotary encoder with a solid shaft diameter of 12 mm
- Housing diameter 102 mm, extrem robust design and high degree of protection
- Maximum 5,000 pulses / revolution
- For highest industrial requirements
- Low torque
- Accessories from page 78

**Mechanical specifications**

- Housing: Zinc die-casting
- Shaft: stainless steel
- Bearing: Deep groove ball bearing
- Weight: approx 1,2 kg
- Protection type: IP 54
- Max. speed: 6,000 U/min
- Torque: approx. 3 Ncm
- Max. shaft load: axial 30 N, radial 50 N

**Electrical specifications**

- max. pulse frequency: 100 kHz
- Perm. temperature range: -30°...+70° C
- Power supply: 10 V...30 V DC
- Max. current consumption: 80 mA (without load)
- Max. output load: 30 mA (per channel)
- Residual ripple: max. ± 5% U₀
- Power supply: 5 V DC ± 5%
- Max. current consumption: 80 mA

**Mechanical dimensions**

* Tolerance = H 6

All specification in millimeters
Output circuits

<table>
<thead>
<tr>
<th>Connection type K (01)</th>
<th>GND</th>
<th>+U_b</th>
<th>A</th>
<th>B</th>
<th>Ã</th>
<th>B̃</th>
<th>0</th>
<th>0̃</th>
<th>↓</th>
</tr>
</thead>
<tbody>
<tr>
<td>GND</td>
<td>black</td>
<td>blue</td>
<td>brown</td>
<td>beige</td>
<td>yellow</td>
<td>green</td>
<td>pink</td>
<td>purple</td>
<td>yl/gr</td>
</tr>
<tr>
<td>Connection type K (01)</td>
<td>black</td>
<td>blue</td>
<td>brown</td>
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<td>yellow</td>
<td>green</td>
<td>pink</td>
<td>purple</td>
<td>yl/gr</td>
</tr>
<tr>
<td>Connection type 0 (connector 12)</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>
<td>11</td>
</tr>
</tbody>
</table>

Order reference

PA 02

Number of pulses 1…5,000

Output circuit

Signal output

Connection type

2 = Line Driver 75183
2 = U_b = 5 V DC/max. 40 mA
3 = 88 C 30 Driver
2 = U_b = 15...30 V DC/max. 100 mA/Output 12 V
5 = Push-pull driver
5 = U_b = 11...24 V DC/max. 30 mA

Signal outputs

A Two square pulse trains offset by 90° el,
B with channel A lagging in clockwise rotation.

Reference pulse 0 once per revolution, position and length optional.

All channels can also be executed inversely.