**Series HWI 40**

- Incremental miniature rotary-encoder with a hollow shaft diameter of 6mm
- Housing diameter 40 mm, small design and standard degree of protection
- Maximum 1024 pulses / revolution
- For simple industrial requirements
- Direct assembly onto existing shafts
- Accessories from page 78

**Mechanical specifications**

- Flange: Aluminium
- Housing: Aluminium
- Shaft: Stainless steel
- Bearing: Deep groove ball bearing
- Weight: approx 0.1 kg
- Protection type: IP 54
- Max. speed: 6,000 U/min
- Torque: approx 1 Ncm

**Electrical specifications**

- Max. pulse frequency: 25 kHz
- Perm. temperature range: -30°...+70° C
- Power supply: 10 V...30 V DC
- Max. current consumption: 40 mA (without load)
- Max. output load: 30 mA (per channel)
- Residual ripple: max. ±5% U_a
- Power supply: 5 V DC ± 5%
- Max. current consumption: 40 mA
- Max. output load: 30 mA (per channel)

**Mechanical dimensions**

All specifications in millimeters.
Output circuits

Order ref.: 1 3 6

Signal outputs

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

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

All channels can also be executed inversely.

Pin configuration

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<thead>
<tr>
<th>Connection type 00 (Colour code according to DIN 47100)</th>
<th>GND</th>
<th>+ U_B</th>
<th>A</th>
<th>B</th>
<th>Â</th>
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<tbody>
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<td>white brown green yellow</td>
<td>gray</td>
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Order reference

HWI 40 S 1 R [Number of pulses 1 - 1024]

Housing  Shaft  Signal output  Drive  Connection position/Connection type  Output circuit
S = Standard  06 = 6 mm  1 = A  1 = Studs  Standard  1 = Push-pull 30 mA
08 = 8 mm  2 = A, B  3 = A, B, 0  4 = A, Â
5 = A, B / Â, B  6 = A, B, 0 / Â, Œ, 0
7 = A, 0  8 = A, 0 / Â, Œ
9 = A, B, 0, 0  R = radial: 00, 01  3 = TTL  6 = RS 422