Sendix incremental type 5006 stainless steel

**Versatile**
- Reliable mounting in a wide variety of installation situations: Comprehensive and proven mounting options
- Standard encoder for use worldwide: compatible with II US and European standards, supply voltage 5-30 VDC, various interface options, max. 5000 ppr.

**Compact**
- Can be used even where space is tight: outer diameter 50 mm, installation depth max. 47 mm.

**Rugged**
- Stays sealed even when subjected to harsh everyday use:
  - Protection IP67
  - Rugged stainless-steel housing
  - Viton seals
  - High security against failures in the field, ideal for use in outdoor applications
- Can be used in a wide temperature range: -40 to +185°F (-40 to +85°C)
- Increased ability to withstand vibration and installation errors: Eliminates machine downtime and repairs, Sturdy “Safety-Lock™ Design” bearing structure

**Mechanical characteristics:**
- Speed: max. 6,000 RPM
- Rotor moment of inertia: approx. 0.098 oz-in² (1.8 x 10⁻⁴ kgm²)
- Starting torque: < 7 oz-in (~0.05 Nm), IP67
- Radial load capacity of the shaft: 40 lbs (178 N)
- Axial load capacity of the shaft: 40 lbs (178 N)
- Protection acc. to EN 60 529 with shaft sealing: IP67
- EX approved for hazardous areas: optional zone 2 and 22

1) For continuous operation 3,000 RPM

**Working temperature:** -40 to +185°F (-40 to +85°C)

**Materials:**
- Housing, flange, shaft: stainless steel
- Connector: stainless steel
- Seals: viton

**Shock resistance acc. to DIN-IEC 68-2-27:**
- 250 g (2,500 m/s²), 6 ms

**Vibration resistance to DIN-IEC 68-2-6:**
- 10 g (100 m/s²), 10-2,000 Hz

**Electrical characteristics:**
- Output circuit: RS 422 (TTL compatible)
- Power consumption (no load): typ. 40 mA
- Permissible load/channel: max. ±20 mA
- Pulse frequency: max. 300 kHz
- Signal level high: min. 2.5 V
- Signal level low: max. 0.5 V
- Rise time t₁: max. 200 ns
- Fall time t₂: max. 200 ns
- Short-circuit proof outputs: yes ¹
- Reverse connection protection at +V: yes ²

1) If supply voltage correctly applied
2) Only one channel allowed to be shorted-out:
   - (If +V=5 V, short-circuit to channel, 0 V, or +V is permitted.)
   - (If +V=5-30 V, short-circuit to channel or 0 V is permitted.)
3) Approximately one minute

Conforms to CE requirements acc. to EN 61000-6-1, EN 61000-6-4 and EN 61000-6-3

RoHS compliant acc. to EU guideline 2002/95/EG

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Standard wiring:

<table>
<thead>
<tr>
<th>Output</th>
<th>Case Ground</th>
<th>Common (0 V)</th>
<th>A</th>
<th>B</th>
<th>Z</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable</td>
<td>Shield/Drain</td>
<td>WH</td>
<td>BN</td>
<td>GN</td>
<td>YE</td>
<td>GY</td>
</tr>
</tbody>
</table>

Wiring Diagram:

Male encoder view

M12 eurofast® pinout

Mating cordset: E-RKC 8T-930- *

* Length in meters.

Part number key: 5006 shaft version

T8.5006.XXXX.XXXX

Type

Flange
7 = clamping flange, Ø 58, IP67
A = servo flange, Ø 58, IP67
C = rectangular flange 2.5", IP67

Shaft (Ø x L)
1 = Ø 6 mm x 10 mm
3 = Ø 10 mm x 20 mm
8 = Ø 3/8" x 7/8"

Pulse rate
360, 512, 1000, 1024, 2000, 2048, 2500, 3600, 4096, 5000
(e.g. 500 pulses => 0500)
Other pulse rates available on request

Type of connection
4 = radial 8-pin, M12 eurofast connector
Note: all connector versions without mating connector.

Output and voltage supply
2 = 5-30 VDC, push-pull (7272 with inverted signal)
4 = 5 VDC, RS 422 (with inverted signal)
5 = 10-30 VDC, push-pull (with inverted signal)

Accessories:
• See page J1, Connectivity, for cables and connectors
• See page E1, Accessories, for mounting attachments and couplings
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Dimensions: 5006 shaft version

5006 flange A
Connection 4

Mounting advice:
The flanges and shafts of the encoder and drive should not be rigidly coupled together at the same time. We recommend the use of suitable couplings (see page E1, Accessories).