Incremental encoders

Standard series of encoders ø58 for industrial environments with excellent mechanical resistance; possibility of high radial and axial load on the shaft. They can be assembled with flanges or servo fasteners.

- Resolutions up to 10000 imp/turn with zero for the EL series and up to 1024 imp/turn for the EH series
- Different electronic configurations available with power supply up to 28 Vdc for the EL series and up to 24 Vdc for the EH series
- Max output frequency up to 300 KHz for the EL series and up to 100 KHz for the EH series
- Output: cable and connector
- Different flanges available
- Speed rotation up to 6000 rpm
- Protection up to IP66

Ordering codes

<table>
<thead>
<tr>
<th>EL</th>
<th>B</th>
<th>1000</th>
<th>Z</th>
<th>5/28</th>
<th>P</th>
<th>6</th>
<th>X</th>
<th>6</th>
<th>M</th>
<th>R</th>
<th>XXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL = incremental encoder EL series</td>
<td>B = mod.EH-EL58B</td>
<td>1000 = ø 10 mm</td>
<td>Z = with zero impulse</td>
<td>5/28 = EL series power supply</td>
<td>P = standard output cable 1.5 m</td>
<td>6 = 6000</td>
<td>X = standard IP54</td>
<td>6 = ø 6 mm EH-EL58B / 58H</td>
<td>R = radial</td>
<td>XXX = Special Customer variants indicated by a progressive number from 001 to 999</td>
<td></td>
</tr>
<tr>
<td>EH = incremental encoder EH series</td>
<td>C = mod.EH-EL58C</td>
<td>5/28 = EH series power supply</td>
<td>Encoder power supply (Vdc)</td>
<td>5/8 x 24 = EH series power supply</td>
<td>M = connector MS3106E 16S-1S or 18-1S</td>
<td>R.P.M.</td>
<td>Protection</td>
<td>8 = ø 8 mm EH-EL58B / 58H / 58T</td>
<td>A = axial</td>
<td>10 = ø 10 mm EH-EL58B / 58C / 58H / 58T</td>
<td></td>
</tr>
<tr>
<td>58 = body dimension</td>
<td>H = mod.EH-EL58H</td>
<td>5/8 x 24 = EH series power supply</td>
<td>Encoder power supply (Vdc)</td>
<td>10 = ø 10 mm EH-EL58B / 58C / 58H / 58T</td>
<td>J = connector JMSP 1607 F or 1610 F</td>
<td>Shaft diameter</td>
<td>N.B.: For the options on the output configurations see the output incremental connections card</td>
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<tr>
<td>T = mod.EH-EL58T</td>
<td>S = without zero impulse</td>
<td>5/8 x 24 = EH series power supply</td>
<td>Encoder power supply (Vdc)</td>
<td>12 = ø 12 mm EH-EL58T</td>
<td>6 = ø 6 mm EH-EL58B / 58H</td>
<td>N.B.: For impulse availability contact directly our offices</td>
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</tbody>
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N.B.: LINE DRIVER available only with 5 Vdc or 8 ÷ 24 Vdc power supply

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N.B.: LINE DRIVER available only with 5 Vdc or 8 ÷ 24 Vdc power supply

N.B.: For the options on the output configurations see the output incremental connections card
Electronic Characteristics EL series

**Resolutions**
from 1 to 10000 imp / turn

**Power supply**
5 - 28 Vdc

**Current consumption**
80 mA

**Max output current**
50 mA per channel

**Electronic output configuration**
NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER

**Max output frequency**
Max 300 KHz

Electronic Characteristics EH series

**Resolutions**
from 40 to 1024 imp / turn

**Power supply**
5 Vdc / 8 - 24 Vdc

**Current consumption**
50 mA bidirectional

**Max commutable current**
50 mA per channel

**Electronic output configuration**
NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER

**Max output frequency**
Max 100 KHz

Mechanical Characteristics

**Shaft diameter (mm)**
e6 / 8 / 10 g6
e10 g6
e16 / 12 g6

**Protection**
IP54 - Standard
Ip66 - Optional

**R.P.M. Max**
6000 with IP54
3000 with Ip66

**Max shaft load**
200N (20 Kp) radial
10N (1 Kp) axial

**Shock**
50 G for 11 msec (with flexile disc)
20 G for 11 msec (with glass disc)

**Vibrations**
10G, 10 ÷ 2000 Hz

**Bearings life**
10 revolutions

**Bearings**
n°2 Ball bearings

**Shaft material**
Stainless steel AISI303

**Body material**
Aluminium UNI 5076

**Cover material**
Special plastic reinforced with glass fibre

**Operating temperature**
0° ÷ +60°C

**Storage temperature**
-25° ÷ +70°C

**Weight**
310 g