



Indicative image

**MINIATURIZED Ø 38 ENCODER SERIES FOR GENERAL  
FACTORY AUTOMATION APPLICATIONS, SMALL AC MOTORS  
AND GEARMOTORS.**

- 3 channel encoder (A / B / Z) up to 2500 ppr
- Power supply up to +30 VDC with several electronic outputs available
- Up to 220 kHz output frequency
- Cable output, connectors available on cable end
- Metal cover for high IP mechanical protection
- Blind hollow shaft diameter up to 10 mm
- Mounting by stator coupling or anti-rotation pin

**Detection properties**

|                    |                                  |
|--------------------|----------------------------------|
| Resolution         | da 100 a 2500 ppr                |
| counting direction | A leads B clockwise (shaft view) |

**Application**

|                      |         |
|----------------------|---------|
| max output frequency | 220 kHz |
|----------------------|---------|

**Outputs**

|             |                         |
|-------------|-------------------------|
| Output type | push-pull / line driver |
|-------------|-------------------------|

**Electrical data**

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Operating Voltage      | 5/30 = 4,5 ... 30 V DC (reverse polarity protection) |
| No-Load supply current | 800 mW                                               |
| max load current       | 20 mA / channel                                      |

**Mechanical data**

|                       |                             |
|-----------------------|-----------------------------|
| Weight                | 150 g                       |
| Housing Material      | PA66 glass fiber reinforced |
| Operating temperature | -20° ... +70°C              |
| Storage temperature   | -25° ... +70°C              |
| max shaft load        | 5 N assiale / radiale       |

|                         |                                         |
|-------------------------|-----------------------------------------|
| Shaft diameter          | ø 6* / 8* / 10 mm                       |
| max rotation speed      | 3000 rpm                                |
| moment of inertia       | 0,8 x 10 <sup>-6</sup> kgm <sup>2</sup> |
| starting torque at 20°C | < 0,01 Nm (IP 64) < 0,06 Nm (IP 65)     |
| shaft material          | 1.4305 / AISI 303 stainless steel       |
| bearings                | 2 ball bearings                         |
| bearings life           | 109 revolutions                         |

#### Test/Approvals

|                       |                                      |
|-----------------------|--------------------------------------|
| EMC compatibility     | IEC 61000-6-2 IEC 61000-6-4          |
| Shocks and vibrations | 10 G, 10 ... 2000 Hz (IEC 60068-2-6) |
| Degree of protection  | IP 64 (IEC 60529) IP 65 (IEC 60529)  |

#### Generical Data

|                       |                                     |
|-----------------------|-------------------------------------|
| Operating Temperature | -20° ... +70°C                      |
| Mechanical Protection | IP 64 (IEC 60529) IP 65 (IEC 60529) |

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