



Product information

INDUcoder STANDARD ENCODER EE 80

Optical incremental shaft encoder

Redundant encoder with 2 tracks and galvanic separated electronics

Combination of different resolutions, signals and supply voltages

Sine/Cosine signals

Temperature range 0°...+110° Celsius

The optical incremental shaft encoder **EE80** is a redundant encoder with 2 tracks with galvanic separated electronics.

Using this encoder, a large number of combinations of different resolutions, different signals and different supply voltages can be established, for example simultaneous measurement of velocity and position.

Package diameter is 80 mm. The encoder shaft is available in every diameter from 6 mm to 12.7 mm.

For both separated tracks combination of resolutions are as follows:

Track 1: every resolution from 1 – 9,000 pulses / revolution

Track 2: every resolution from 1 – 6,500 pulses / revolution

Supply voltage is available with the following combinations:

5 VDC with RS422 line driver or

10 – 30 VDC with push-pull 3 or 6 channel outputs or RS 422 line driver.

The presented EE110 is also available with **sine/cosine-signals of 1 Vpp** and supply voltage of 5 or 10 – 30 Volts. This construction is especially suitable for applications in high speed drives and for high precision positioning tasks.

Because of the high maximum rotational speed of 12.000 min⁻¹ EE80 can be mounted directly to a motor. Operation temperature is 0° to +60° Celsius, on request the range can be widened from 0° to +110° Celsius. The device is shock resistant up to 100 g.

Resulting from the galvanic separated electronics, the encoder EE80 guarantees high operation reliability. Even if one of the two electronic parts fails the device still operates.

EE80 is manufactured with two cable outlets or connectors mounted on the side or on the rear. The standard cable has a length of 1 m. On customer's request longer cables can be assembled.

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