



Product information

INDUcoder STANDARD ENCODER EE 110

Optical incremental shaft encoder

Square flange 92.5 x 92.5 mm

Case height only 50 mm

High resolution up to 900,000 pulses per revolution

Sine/Cosine-signals

High angular measurement accuracy 5''

Temperature range -42°...+110° Celsius

Protection class IP 68

The optical incremental shaft encoder EE110 is an angular measurement device in a very compact construction, but also with a high number of pulses per revolution, sine/cosine-signals, high angular measurement accuracy, a wide spread temperature range and high protection class.

The EE110 only needs 50 mm mounting space in depth including flange. Dimensions of the square flange are 92.5 x 92.5 mm. The encoder shaft is available in every diameter from 6 mm to 12.7 mm, slot and spring design is possible.

The encoder can be manufactured with a **resolution up to 900,000 pulses per revolution**.

Supply voltage is available with the following combinations:

5 VDC with RS422 line driver or

10 – 30 VDC with push-pull outputs with 3 or 6 channels or RS422 line driver.

The presented EE110 is also available with **sine/cosine-signals of 1 Vpp and angular measurement accuracy of 5''** with supply voltage of 5 or 10 – 30 Volts. Therefore EE110 is suitable for high-precision positioning tasks.

Above all the STANDARD ENCODER EE110 is most favourable for applications in high speed drives, because of its high maximum rotational speed of 10,000 min⁻¹.

Operation temperature is 0° to +70° Celsius, optional either -20° to +110° Celsius or -42° to +110° Celsius. EE110 is shock resistant up to 100 g. Protection class is IP 65. IP 68 is also available on request.

EE110 is manufactured with cable outlet or connector mounted on the side. The standard cable has a length of 1 m. On customer's request longer cables can be assembled.