INDUcoder®

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Product information

INDUcoder EURO ABSOLUT ENCODER

EA50 und CAH 50

Optical absolute single-turn encoder

Shaft or hollow shaft encoder

Case height only 35 mm

Resolution up to 12 bit

High shaft load

Protection class IP 65

Shock resistance 100 g

INDUcoder presents its smallest optical EURO ABSOLUT ENCODERS:

Optical absolute single-turn encoder **EA 50 with shaft and CAH 50 with hollow shaft.**
For EA 50 as well as for CAH 50 package diameter is only 50 mm. **Case height is only 35 mm.** Compared to the commercially available standard package diameter of 58 mm for absolute single-turn encoders, our compact design of the absolute shaft encoder or absolute no shaft encoder minimizes the required mounting space in advantage for the user.

The absolute encoders are available with resolutions up to 12 bit. Data format for output is gray or binary code with negative logic. Supply voltage is available with the following combinations:

4.5 to 13 VDC with open collector output with or without pull-up resistor or
10.8 to 26 VDC with open collector or push-pull output.

The cable outlet is mounted on the side and the standard cable has a length of 0.5 m. On customer's request longer cables can be assembled.

The absolute single-turn encoders have protection class IP65 and **the load of the ball bearings** is **80 N radial** and **50 N axial** for both encoders. Because of the **high shock resistance of 100g** the small EA 50 / CAH 50 is suitable for adverse mounting conditions as well as for rough environmental conditions.

As accessory an adaptor flange with 50 mm centring device is available for the absolute single turn shaft encoder EA 50, to take advantage of the compact design, even at places where mounting accessories for the standard size single-turn shaft encoders with package diameter of 58 mm are already installed.

INDUcoder Messtechnik GmbH
Kaiserstrasse 316 - 47178 Duisburg - Germany

phone: +49 203 / 57047-0
fax: +49 203 / 57047-20

Internet: http://www.inducoder.de

E-Mail: info@inducoder.de