IBV 600 SERIES

Product Data Sheet

IBV660B ID331923-01

Encoder Signal Interpolation Converter

ENCODER INPUT	OUTPUT SIGNAL	INPUT CONNECTOR	OUTPUT CONNECTOR
1 Vpp sinusoidal signals	**Clocked TTL**	**12-pin M23 female**	**12-pin M23 male**

HEIDENHAIN IBV660B ID331923-01 is an IBV 600-series signal converter for incremental encoders. It converts nominal 1 Vpp sinusoidal signals into clocked TTL outputs for downstream motion or position electronics.

01 TECHNICAL DATA

Encoder input	1 Vpp sinusoidal signals
Output signal	Clocked TTL
Input connector	12-pin M23 female
Output connector	12-pin M23 male
Interpolation factors	25×, 50×, 100×, 200× or 400×
Reference mark width	90° or 270° electrical, selectable
Supply voltage	5 V DC ±5%
Maximum module current	120 mA without encoder or output load
Operating temperature	0 to +70 °C
Storage temperature	–30 to +80 °C

HEIDENHAIN IBV 600 Series product information, pp. 2–4; official product ID 331923-01

02 ADDITIONAL PRODUCT DATA

Ingress protection	IP65
Vibration rating	10 m/s², 50–2,000 Hz
Shock rating	300 m/s² for 11 ms
Input cable limit	60 m when encoder supply exceeds 4.9 V, subject to loading
Fault output	Dedicated fault signal, with optional high-impedance Ua1/Ua2

03 PRODUCT FUNCTION

The converter offers selectable interpolation from 25-fold to 400-fold. The configured output edge spacing and interpolation factor determine the permitted encoder input frequency. Its IP65 housing uses separate 12-pin M23 connections for the encoder and the TTL receiver.

04 SYSTEM COMPATIBILITY

Select the interpolation factor and output edge spacing together. Compare the configured input frequency limit with the highest encoder frequency expected in service.

05 REFERENCE

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AMIKON PRODUCT SUPPORT
+86-18020776786 INFO@AMIKON.CN AMIKONG.COM