



Introduction

FBs-30GM is a 3-axis motion control module which can implement linear interpolation, 2-axis circular interpolation, and 3-axis helical interpolation.

FBs-30GM provides 3 sets of 500kHz high speed differential output for position control and 3 sets of 500kHz high speed differential input for precise close-loop position control.

FBs-30GM goes with FBs series PLC to provide the extraordinary motion control ability. Users can send operating commands, detect the digit inputs and manage the digit outputs of FBs-30GM through FBs PLC.

FBs-30GM can be used in a variety of industrial and factory automation applications. FBs-30GM motion control is powerful and easy-to-use since it is programed by widely used G-code and M-code. FBs-30GM also provides MACRO structure motion language to perform logical and arithmetic operations. With GMMon, the monitoring software for FBs-30GM, computers can not only real-time monitor the operating status but also configure FBs-30GM motion parameters. Moreover, GMMon provides off-line simulation function. Users can simulate and verify motion programs on their local computers.

Features

- Support 3-axis linear, 2-axis circular and 3-axis helical interpolation
- Support jog, electric hand wheel, and Home function
- Compatible with G-code and M-code
- Provide MACRO structure motion language for logical and arithmetic operations
- Support encoder and optical measurement feedback for precision control
- Support on-line status monitoring
- Support off-line simulation

Specifications

Number of Axes – 3

Maximum Pulse Output Rate – 500 kHz

Pulse Output Mode – A/B phase

Control Mode – Synchronous position control

Linear Interpolation – 3-axis

Circular Interpolation – 2-axis

Helical Interpolation – 3-axis

Mechanical Switch Input – DOG, LSP, LSN, E.STOP

Digital Input Channels – 9 DI

Digital Output Channels – 6 DO

Power supply voltage – 100 ~ 240 VAC, 50/60 Hz

Fuse capacity – 2A/250 VAC

24VDC output – Up to 500 mA

5VDC output – Up to 250 mA

Operating Temperature – -10°C ~ 60°C

Storage Temperature – -40°C ~ 85°C