

**IC600BF915**  
**New In Stock!**  
**GE Fanuc**

<http://www.pdfsupply.com/automation/ge-fanuc/ge-series-six-6/IC600BF915>

**Ge Series Six 6**  
**1-919-535-3180**

Axis Positioning Module Type 1 (Resolver Feedback) IC600B  
IC600BF

[www.pdfsupply.com](http://www.pdfsupply.com)

Email: [sales@pdfsupply.com](mailto:sales@pdfsupply.com)

TABLE 2. SPECIFICATIONS

INTERFACE	IN/OUT	CHARACTERISTICS
Drive Enable (optional connection)	output	Normally open relay contact; Contact Rating: 24 V ac/dc, 1 amp maximum; (resistive load only); (power supplied by user).
Loop Contactor (optional connection)	output	Same as Drive Enable.
Negative (Left) Overtravel Switch (optional connection)	Input	Requirements: ON state = 24 V dc +/-10%; OFF state < 3 V dc; input current = 10 mA at 24 V; Input impedance = 2000 ohms. Interpretation: OFF = overtravel. A jumper (JP3) is provided to disable the Overtravel Switch function.
Positive (Right) Overtravel Switch (optional connection)	Input	Same as Negative Overtravel.
Home Switch	Input	Requirements: Same as Negative Overtravel. Interpretation: ON = Negative side of Home Position; OFF = Positive side of Home Position;
Drive OK (optional connection)	Input	Requirements: ON state = 24 Vdc +/-10%; OFF state < 3 V dc; Input current = 10 mA at 24 V; Input impedance = 2000 ohms. Interpretation: ON = Drive OK; OFF = Drive not OK. A jumper (JP4) is provided to disable the DRIVE OK input.
Velocity Command	output	Differential output of D/A converter with following characteristics: Resolution: 13 bits including sign Linearity: .012% of Full Scale Output Offset voltage at zero output: +/-500 microvolts max. Maximum output voltage: +/-10v +/- .3 v Minimum output load resistance: 2000 ohms.
Analog Input (optional connection)	Input	A/D converter input with the following characteristics: Input range: 0 to +10.0Vdc Gain factor: + 10.0 V dc input produces an output value of 100 to the CPU Input impedance: Greater than 10K ohms
Synchronized Start (optional connection)		Output on Master APM; Input on Slave APM. Jumpers JP1, JP2 and JP5 configure the APM for Normal or Master/Slave operation.
Power Supply		A High-Capacity I/O power supply or Model 60 CPU is required to provide backplane power to the APM.

TABLE 3. RESOLVER SPECIFICATIONS

Transformation ratio: 50 +/- 0.1	DC stator resistance: 30 to 225 ohms
Stator input impedance (rotor open) : 1700 to 9000 ohms at 2.5 KHz	Rotor output voltage: 4.0 V RMS min with 20K load
	DC rotor resistance: 15 to 4000 ohms
Resolver Cable Specifications	
Maximum Length:	300 feet (each cable)
Excitation Cable:	Two individually shielded twisted pairs, Belden type 8723 or equivalent
Feedback Cable:	One shielded twisted pair, Belden type 8762 or equivalent.

PDFSupply.com

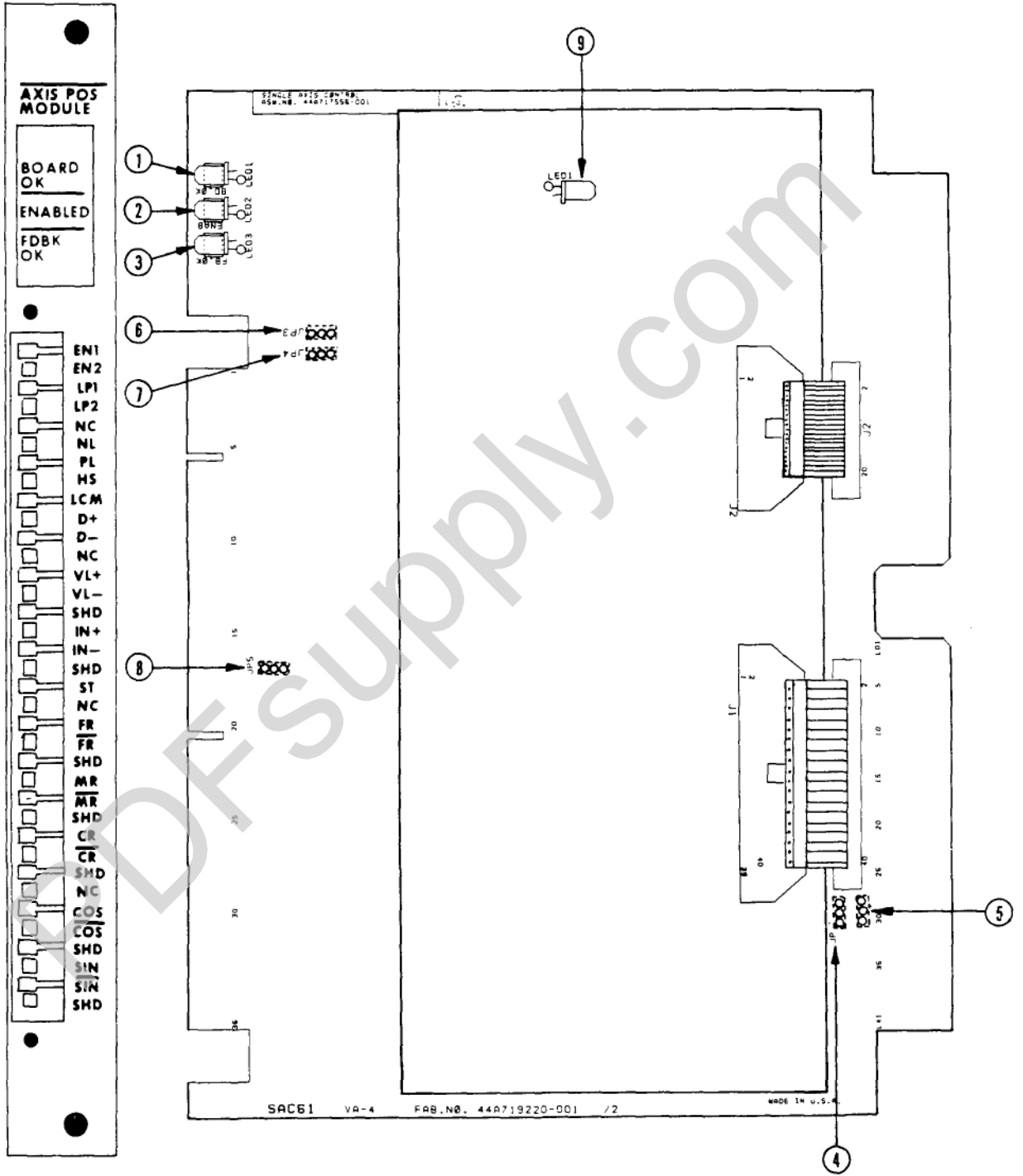


FIGURE 1. USER ITEMS (Part 1 of 2)

- ① **BOARD OK LED**
  - ON: APM has passed self-diagnostic tests. These tests are performed when the I/O rack is turned on and whenever an error condition occurs.
  - OFF: APM hardware failure. APM not in High Capacity I/O rack or a Model 60 CPU I/O slot.
- ② **ENABLED LED**
  - ON: APM is capable of controlling position. Turned on by discrete command, ENABLE APM.
  - OFF: Turned off by any error condition or REMOTE STOP Command.
- ③ **FEEDBACK OK LED**
  - ON: Resolver feedback is present.
  - FLASHING: Resolver feedback is not present.
- ④ **Jumper JP1**
  - Functions: Normal Operation (1-2); Master Clock (2-3).
  - Factory-Set: Normal Operation (1-2).
- ⑤ **Jumper JP2**
  - Functions: Normal Operation (1-2); Slave Clock (2-3) †
  - Factory-Set: Normal Operation (1-2).
- ⑥ **Jumper JP3**
  - Functions: Overtravel Limit Switch Enable (1-2); Overtravel Limit Switch Disable (2-3).
  - Factory-Set: Overtravel Limit Switch Enable (1-2).
- ⑦ **Jumper JP4**
  - Functions: Drive OK Input Enable (1-2); Drive OK Input Disable (2-3).
  - Factory-Set: Drive OK Input Enable (1-2).
- ⑧ **Jumper JP5**
  - Functions: Master Start Output (1-2); Slave Start Input (2-3).
  - Factory-Set: Master Start Output (1-2).
- ⑨ **Factory Test LED**

FIGURE 1. USER ITEMS (Part 2 of 2)

## INSTALLATION

Figure 2 provides a representation of possible user connections to the APM. The module faceplate is shown. Refer to the APM Manual, GEK-25363, for detailed connection information.

### WARNING

Voltages from user field devices could be present on the faceplate terminals, even if the power supply in the I/O rack is off. Care should be taken when handling the faceplate of this module or any wires connected to it.

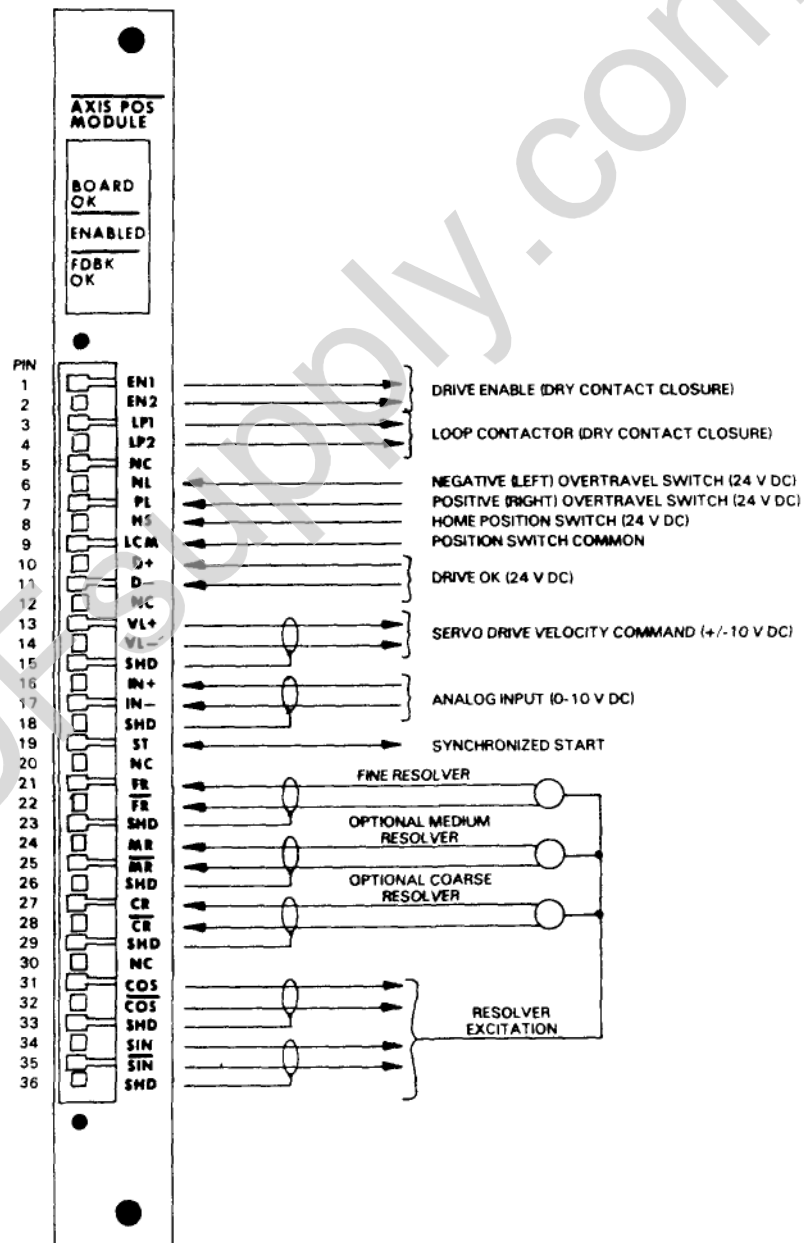


FIGURE 2. USER CONNECTIONS

**I/O ADDRESSING**

Figure 3 shows the allowable I/O address and corresponding Dual In-line Package (DIP) switch settings.

INPUT NUMBER	DIP SWITCH POSITION					INPUT NUMBER	DIP SWITCH POSITION					INPUT NUMBER	DIP SWITCH POSITION				
	7	6	5	4	3		7	6	5	4	3		7	6	5	4	3
1- 32						353-384		X		X	X	705-736	X		X	X	
33- 64					X	385-416		X	X			737-768	X		X	X	
65- 96				X		417-448		X	X		X	769-800	X	X			
97-128				X	X	449-480		X	X	X		801-832	X	X		X	
129-160			X			481-512		X	X	X	X	833-864	X	X		X	
161-192			X	X		513-544	X					865-896	X	X		X	
193-224			X	X		545-576	X			X		897-928	X	X	X		
225-256			X	X	X	577-608	X			X		929-960	X	X	X	X	
257-288		X				609-640	X			X	X	961-992	X	X	X	X	
289-320		X			X	641-672	X		X			993-1024 } <u>(NOT USED)</u>	X	X	X	X	
321-352		X		X		673-704	X		X	X							

= Switch in OPEN Position (Depressed to the Left)  
Switches No. 1 and No. 2 should be in CLOSED Position

FIGURE 3. DIP SWITCH SETTINGS

**ORDERING INFORMATION**

Circuit Board and Faceplate

IC600BF915C

Circuit Board

IC600YB915C

Faceplate

IC600FP915A

**CATALOG NUMBER REVISION SUFFIX**

The equipment listed above having the catalog numbers shown and the same equipment having a higher alpha suffix is designed for listing by UL for use as auxiliary control devices. The equipment is a direct replacement for equipment having the same catalog number but a lower alpha suffix.



This symbol on the nameplate means the product is listed by Underwriters Laboratories Inc. (UL Standard No. 508, Industrial Control Equipment, subsection Electronic Power Conversion Equipment.)

For further information, contact your local GE Fanuc sales office.

**GE Fanuc Automation North America, Inc., Charlottesville, Virginia**