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## AFP7PG02L | FP7 Pulse output units



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**RoHS  
compliant**

|                |                        |
|----------------|------------------------|
| Product Number | AFP7PG02L              |
| Part Number    | AFP7PG02L              |
| Product        | FP7 Pulse output units |
| Product name   | FP7 Pulse output units |

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As of July 16, 2018

Specifications and design of the products are subject to change without notice for the product improvement.

### Spec Detail

| Item           | Specifications |
|----------------|----------------|
| Product Number | AFP7PG02L      |
| Part Number    | AFP7PG02L      |

#### PERFORMANCE SPECIFICATIONS

| Item        | Specifications |
|-------------|----------------|
| Output type | Line driver    |

#### Performance specifications

| Item            | Specifications        |
|-----------------|-----------------------|
| Occupied points | Each 32 points of I/O |

#### PERFORMANCE SPECIFICATIONS

| Item                      | Specifications      |
|---------------------------|---------------------|
| Number of axes controlled | 2 axes, independent |

#### Performance specifications

| Item  | Specifications   |
|---|--|
| Position command:Command units                                | Pulse (The program specifies whether increment or absolute is used.) |
| Position command:Max. pulse count                             | Signed 32 bits (+2,147,483,647 to -2,147,483,648 pulses)             |
| Speed command:Command range                                   | 1 pps to 4 Mpps (can set in 1 pps)                                   |
| Acceleration/deceleration command:Acceleration / deceleration | Linear acceleration / deceleration, S acceleration / deceleration    |

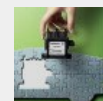
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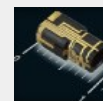
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|  |   |
|--|---|
| Acceleration/deceleration command:"S" Acceleration / deceleration  | Can select from sin curve, secondary curve, cycloid curve and third curve.  |
| Acceleration/deceleration command:Acceleration / deceleration time | 0 to 32,767 ms (can set in 1 ms)  |
| Home return:Home return speed                                      | Speed setting possible (changes return speed and search speed)  |
| Home return:Input signal   | Home input, near home input, limit input (+), limit input (-)   |
| Home return:Output signal  | Deviation counter clear signal  |
| Operation mode   | <ul style="list-style-type: none"> <li>- E point control (linear and s acceleration/decelerations)</li> <li>- P point control (linear and s acceleration/decelerations)</li> <li>- Home return operation (home search)</li> <li>- JOG operation (Note 1)</li> <li>- JOG positioning operation</li> <li>- Pulsar input function (Note 2) transfer multiplication ratio (x 1, x 2, x 5, x 10, x 50, x 100, x 500, x 1000)</li> <li>- Real-time frequency change</li> <li>- Infinity output</li> </ul> <p>(Note 1) When linear acceleration/deceleration operation is selected, it is possible to change the target speed during operation.<br/>         (Note 2) Since the pulsar input function and the high-speed counter function use the same pulse input terminal, both functions cannot be used at the same time.</p> |
| Startup time   | 0.02 ms, 0.005 ms or 0.001 ms selecting possible<br>(Note) Startup time can be changed using the common memory control code setting. The factory (default) setting is 0.02 ms. Startup time is defined as the time between startup and output of the first pulse.   |
| Output interface:Output mode                                       | 1 pulse output (pulse and sign), 2 pulse output (CW and CCW)  |
| High-speed counter function:Countable range                        | Signed 32 bits (+2,147,483,647 to -2,147,483,648 pulse)<br>(Note) Since the pulsar input function and the high-speed counter function use the same pulse input terminal, both functions cannot be used at the same time.  |
| High-speed counter function:Input mode                             | Two-phase input, direction distinction input, individual input (with multiplier function mode)<br>(Note) Since the pulsar input function and the high-speed counter function use the same pulse input terminal, both functions cannot be used at the same time.   |
| Other functions  | <ul style="list-style-type: none"> <li>- Startup using I/O contact</li> <li>- Built-in limit (+) and limit (-)</li> <li>- With servo ON output</li> </ul>   |
| External power supply:Voltage                                      | 21.6 to 26.4 V DC   |
| External power supply:Current                                      | 50 mA (at 24 V)   |




#### COMMON GENERAL SPECIFICATIONS

| Item                  | Specifications   |
|-----------------------|--|
| Ambient temperature   | 0 to +55 degrees +32 to +131 degrees Fahrenheit , at storage: -40 to +70 degrees -40 to +158 degrees Fahrenheit  |
| Ambient humidity      | 10 to 95 % RH (at 25 degrees 77 degrees Fahrenheit , no condensation), at storage: 10 to 95 % RH (at 25 degrees 77 degrees Fahrenheit , no condensation)   |
| Breakdown voltage     | 500 V AC for 1 minute  |
| Insulation resistance | 100 MOhm or more (at 500 V DC)   |
| Vibration resistance  | 5 to 8.4 Hz, single amplitude of 3.5 mm 0.138 in, 1 sweep/min. (IEC61131-2); 8.4 to 150 Hz, constant acceleration of 9.8 m/s <sup>2</sup> , 1 sweep/min. (IEC61131-2), 10 times each in X, Y, and Z directions |
| Shock resistance      | 147 m/s <sup>2</sup> or more , 3 times each in X, Y, and Z directions (IEC61131-2)   |
| Noise immunity        | 1,000 V [p-p] with pulse width 50 ns and 1 micro s (using a noise simulator)   |
| Operating condition   | Free from corrosive gasses and excessive dust  |

#### INDIVIDUAL GENERAL SPECIFICATIONS

| Item                | Specifications |
|---------------------|----------------|
| Rated voltage range | -              |
| Current consumption | 65 mA or less  |
| Net weight          | 130 g approx.  |

## Accessories (Option)

|  |  |  |
|--|--|--|
|  |  |  |
| Product Number <b>AFP2801</b>  | Product Number <b>AFP2802</b>  | Product Number <b>AFP8503</b>  |
| Part Number <b>AFP2801</b>   | Part Number <b>AFP2802</b>   | Part Number <b>AFP8503</b>   |
| Product name <b>Discrete-wire connector set</b>                                  | Product name <b>Flat cable connector set</b>                                     | Product name <b>Motor Driver I/F Terminal II</b>                                 |

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