



## AFP7X16DW | FP7 Input and Output units



※Photo may vary from actual product.

|                |                            |
|----------------|----------------------------|
| Product Number | AFP7X16DW                  |
| Part Number    | AFP7X16DW                  |
| Product        | FP7 Input and Output Units |
| Details        | Input units                |
| Product name   | FP7 Input and Output units |

### Spec Detail

As of May 30, 2021

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

| Item                                                        |                                                                                                               | Specifications |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------|
| Product Number                                              | AFP7X16DW                                                                                                     |                |
| Part Number                                                 | AFP7X16DW                                                                                                     |                |
| [[INPUT SPECIFICATIONS]]Insulation method                   | Photocoupler insulation                                                                                       |                |
| [[INPUT SPECIFICATIONS]]Rated input voltage                 | 12 to 24 V DC                                                                                                 |                |
| [[INPUT SPECIFICATIONS]]Rated input current                 | 6 mA approx. (at 24 V)                                                                                        |                |
| [[INPUT SPECIFICATIONS]]Impedance                           | 3.6 kOhm                                                                                                      |                |
| [[INPUT SPECIFICATIONS]]Min. ON voltage / Min. ON current   | 9.6 V / 2 mA                                                                                                  |                |
| [[INPUT SPECIFICATIONS]]Max. OFF voltage / Max. OFF current | 2.5 V / 1 mA                                                                                                  |                |
| [[INPUT SPECIFICATIONS]]Response time:OFF→ON                | 0.1 ms or less<br>(Note) Changeable by settable input time constant                                           |                |
| [[INPUT SPECIFICATIONS]]Response time:ON→OFF                | 0.2 ms or less<br>(Note) Changeable by settable input time constant                                           |                |
| [[INPUT SPECIFICATIONS]]Input points per common             | 8 points/common                                                                                               |                |
| [[INPUT SPECIFICATIONS]]Operating mode indicator            | 16 points LED display (lights when ON)                                                                        |                |
| [[INPUT SPECIFICATIONS]]External connection method          | Terminal block (M3 screw)                                                                                     |                |
| [[COMMON GENERAL SPECIFICATIONS]]Ambient temperature        | 0 to +55 °C +32 to +131 °F, Storage: -40 to +70 °C -40 to +158 °F                                             |                |
| [[COMMON GENERAL SPECIFICATIONS]]Ambient humidity           | 10 to 95 % RH (at +25 °C +77 °F, no condensation), Storage: 10 to 95 % RH (at +25 °C +77 °F, no condensation) |                |
| [[COMMON GENERAL SPECIFICATIONS]]Breakdown voltage          | 500 V AC for 1 minute<br>(Note) The breakdown voltage is 2,300 V AC, 1 minute.                                |                |
| [[COMMON GENERAL SPECIFICATIONS]]Insulation resistance      | 100 MOhm or more (at 500 V DC)                                                                                |                |

|                                                          |                                                                                                                                                                                                                   |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [[COMMON GENERAL SPECIFICATIONS]]Vibration resistance    | 5 to 8.4 Hz, single amplitude of 3.5 mm 0.138 in, 1 sweep/min. (IEC 61131-2) ; 8.4 to 150 Hz, constant acceleration of 9.8 m/s <sup>2</sup> , 1 sweep/min. (IEC 61131-2), 10 times each in X, Y, and Z directions |
| [[COMMON GENERAL SPECIFICATIONS]]Shock resistance        | 147 m/s <sup>2</sup> or more , 3 times each in X, Y, and Z directions (IEC61131-2)                                                                                                                                |
| [[COMMON GENERAL SPECIFICATIONS]]Noise immunity          | 1,000 V [p-p] with pulse width 50 ns and 1 micro s (using a noise simulator)                                                                                                                                      |
| [[COMMON GENERAL SPECIFICATIONS]]Operating condition     | Free from corrosive gasses and excessive dust                                                                                                                                                                     |
| [[INDIVIDUAL GENERAL SPECIFICATIONS]]Rated voltage range | -                                                                                                                                                                                                                 |
| [[INDIVIDUAL GENERAL SPECIFICATIONS]]Current consumption | 25 mA or less                                                                                                                                                                                                     |
| [[INDIVIDUAL GENERAL SPECIFICATIONS]]Net weight          | 125 g approx.                                                                                                                                                                                                     |

Accessories



|                |                    |
|----------------|--------------------|
| Product Number | AFP7TER            |
| Part Number    | AFP7TER            |
| Product name   | FP7 Terminal block |

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