



AFP7XY64D2P | FP7 Input and Output units



※Photo may vary from actual product.

Product Number	AFP7XY64D2P
Part Number	AFP7XY64D2P
Product	FP7 Input and Output Units
Details	Input and Output 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	AFP7XY64D2P	
Part Number	AFP7XY64D2P	
[[INPUT SPECIFICATIONS]]Insulation method	Photocoupler insulation	
[[INPUT SPECIFICATIONS]]Rated input voltage	24 V DC	
[[INPUT SPECIFICATIONS]]Rated input current	3.4 mA	
[[INPUT SPECIFICATIONS]]Impedance	7.5 kOhm	
[[INPUT SPECIFICATIONS]]Min. ON voltage / Min. ON current	19.2 V / 2.5 mA	
[[INPUT SPECIFICATIONS]]Max. OFF voltage / Max. OFF current	5 V / 1.5 mA	
[[INPUT SPECIFICATIONS]]Response time:OFF→ON	0.2 ms or less (Note) Changeable by settable input time constant	
[[INPUT SPECIFICATIONS]]Response time:ON→OFF	0.2 ms or less (Note) Changeable by settable input time constant	
[[INPUT SPECIFICATIONS]]Input points per common	32 points/common	
[[INPUT SPECIFICATIONS]]Operating mode indicator	32 points LED display (lights when ON, selectable by switch)	
[[INPUT SPECIFICATIONS]]External connection method	Connector (MIL-compliant 40 pins, one use)	
[[OUTPUT SPECIFICATIONS]]Insulation method	Photocoupler insulation	
[[OUTPUT SPECIFICATIONS]]Rated control capacity	-	
[[OUTPUT SPECIFICATIONS]]Min. load	-	
[[OUTPUT SPECIFICATIONS]]Output type	Open collector	
[[OUTPUT SPECIFICATIONS]]Rated load voltage	5 to 24 V DC	
[[OUTPUT SPECIFICATIONS]]Load	4.75 to 26.4 V DC	

voltage allowable range

[[OUTPUT SPECIFICATIONS]]Max. load current:0.3 A (Y0 to Y7)	0.3 A (20.4 to 26.4 V DC), 30 mA (4.75 V DC)
[[OUTPUT SPECIFICATIONS]]Max. load current:0.1 A (other than that above)	0.1 A (20.4 to 26.4 V DC), 15 mA (4.75 V DC)
[[OUTPUT SPECIFICATIONS]]Common restriction	3.2 A/common
[[OUTPUT SPECIFICATIONS]]Max. surge current	0.6 A
[[OUTPUT SPECIFICATIONS]]OFF state leakage current	1 micro A or less
[[OUTPUT SPECIFICATIONS]]ON state maximum voltage drop	0.5 V or less
[[OUTPUT SPECIFICATIONS]]Repose time:OFF→ON	0.1 ms or less (at load current 2 mA or more)
[[OUTPUT SPECIFICATIONS]]Repose time:ON→OFF	0.5 ms or less (at load current 2 mA or more)
[[OUTPUT SPECIFICATIONS]]Life time:Mechanical life	-
[[OUTPUT SPECIFICATIONS]]Life time:Electrical life	-
[[OUTPUT SPECIFICATIONS]]External power supply:Voltage	4.75 to 26.4 V DC
[[OUTPUT SPECIFICATIONS]]External power supply:Current (at 24 V)	90 mA
[[OUTPUT SPECIFICATIONS]]Surge absorber	Zener diode
[[OUTPUT SPECIFICATIONS]]Relay socket	-
[[OUTPUT SPECIFICATIONS]]Short circuit protection	-
[[OUTPUT SPECIFICATIONS]]Output points per common	32 points/common
[[OUTPUT SPECIFICATIONS]]Operating mode indicator	32 points LED display (lights when ON, selectable by switch)
[[OUTPUT SPECIFICATIONS]]External connection method	Connector (MIL-compliant 40 pins, one use)
[[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 (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 ² , 1 sweep/min. (IEC 61131-2), 10 times each in X, Y, and Z directions
[[COMMON GENERAL SPECIFICATIONS]]Shock resistance	147 m/s ² 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	55 mA or less
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Net weight	115 g approx.

Accessories



Product Number	AFP2801
Part Number	AFP2801
Product name	Discrete-wire connector set



Product Number	AFP2802
Part Number	AFP2802
Product name	Flat cable connector set



Product Number	AXW7221FP
Part Number	AXW7221FP
Product	Pressure contact for multi-wire
Product name	Pressure contact for multi-wire



Product Number	AXW7231FP
Part Number	AXW7231FP
Product	Pressure contact for multi-wire
Product name	Pressure contact for multi-wire



Product Number	AXY52000FP
Part Number	AXY52000FP
Product	Pressure contact tool
Details	Multi-wire connector pressure contact tool
Product name	Pressure contact tool