



Search Keyword

AUTOMATION CONTROLS

Automation Controls

Search Site

Search Part No.

Search Discontinued Products

Sign In / Register

[Home](#) Products Downloads Learn Our Products Support

[Home](#) Business > Industrial Devices > Automation Controls Top > Components & Devices > Relays > Power Relays (Over 2A) > PA-N Relays > Part Number > APAN3124


English (Asia Pacific)

NEW APAN3124 | PA-N Relays

[CAD data](#) [Catalogs/Datasheets](#) [FAQ](#)

[Share](#)
Tweet
G+1

[Print This Page](#)
Email This Page



*Photo may vary from actual product.

RoHS compliant
Lead Free

[Dimensions](#)
[A List of Part Numbers in This Series](#)
[Information on Compliance with Standards](#)
[Accessories \(Option\)](#)

Product Number **APAN3124** [+ Favorite](#)

Part Number **APAN3124**

Product name **PA-N Relays**

Features **1 Form A 5A slim power relay complies with IEC61010 reinforced insulation**

CONTACT US BY EMAIL

Please click your area to select country or region

- Asia-Pacific
 Middle East
 [GO](#)

BY PHONE

- Singapore **+65-6390-3706**
 India **+91-124-4751300**
 Indonesia **+62-21-252-1616**
 Vietnam **+84-8-3813-4591**
 Thailand **+66-2-693-1870**
 Malaysia **+60-3-2297-6888**
 Philippines **+632-886-6291**
 Turkey **+90-216-681-0400**

[Distributors in Asia-Pacific, Middle East](#)

[FAQ](#)

Spec Detail

As of April 29, 2016

Item	Specifications
Product Number	APAN3124
Part Number	APAN3124
Protective construction	Sealed Type
Terminal shape	PC board through hole terminal
Contact arrangement	1 Form A (Bifurcated)
Contact resistance (Initial)	Max.30m (By voltage drop 6 V DC 1A)
Contact material	AgNi type + Au
Nominal switching capacity (Resistive load)	5A 250V AC, 5A 30V DC
Contact carrying power (Resistive load)	1,250VA, 150W
Max. switching voltage	250V (AC), 110V (DC) (0.4A)
Max. switching current	5A (AC, DC)
Nominal coil voltage	24V DC
Pick-up voltage	70%V or less of nominal voltage (Initial)
Drop-out voltage	5%V or more of nominal voltage (Initial)
Nominal operating current [±10%] (at 20°C 68°F)	4.6mA
Coil resistance [±10%] (at 20°C 68°F)	5,236

RECOMMENDS

[Introduction to Automation Controls](#)



FEATURES

[A Vital Piece to the EV and HEV Puzzles](#)



[Panasonic Products for Smart Grids Solutions](#)



[TOUGH for Mobiles](#)



[MID Solutions \(MIPTEC/LDS\)](#)



Nominal Operating Power	110mW	<p>Customer Satisfaction Survey Questionnaire</p> <p>Please help us improve Panasonic Automation Controls website by completing our online survey.</p> <p>We are always looking to make our website more user-friendly and comfortable for you.</p> <p>We aim to use feedback positively to improve our website, please give us comments or requests you may have.</p>
Max. applied voltage (at 20°C 68°F)	120%V of nominal voltage	
Min. switching capacity (reference value)	1mA 5V DC	
Insulation distance (Between contact and coil)	Clearance: Min. 5.29mm .208inch Creepage distance: Min. 5.35mm .211inch	
Insulation resistance (Initial)	Min.1,000M (at 500V DC) Measurement at same location as "Breakdown voltage" section.	
Breakdown voltage (Between open contact) (Initial)	1,000 Vrms for 1 min. (Detection current: 10mA)	
Breakdown voltage (Between contact and coil) (Initial)	3,000 Vrms for 1 min. (Detection current: 10mA)	
Surge breakdown voltage (Between contact and coil) (Initial)	6,000 V	
Operate time (at 20°C 68°F)	Max.10ms (at Nominal coil voltage, excluding contact bounce time) (Initial)	
Release time (at 20°C 68°F)	Max.5ms (at Nominal coil voltage, excluding contact bounce time) (without diode) (Initial)	
Shock resistance (Functional)	Min. 147m/s ² (Half-wave pulse of sine wave: 11ms; detection time: 10μs.)	
Shock resistance (Destructive)	Min. 980 m/s ² (Half-wave pulse of sine wave: 6ms.)	
Vibration resistance (Functional)	10 to 55 Hz at double amplitude of 2.5mm (Detection time: 10μs.)	
Vibration resistance (Destructive)	10 to 55 Hz at double amplitude of 3.5mm	
Expected life (Mechanical)	Min.2x10 ⁷ (at 180 times/min)	
Expected life (Electrical)	Min. 10 ⁵ (3A 250V AC, 30V DC, resistive load) Min. 5x10 ⁴ (5A 250V AC, 30V DC, resistive load) (at 20 times/min) Operating frequency of 5A 250V AC is 6 times/min. (ON : OFF = 1 s : 9 s)	
Conditions	Ambient temperature: -40°C to 90°C -40°F to 194°F; Humidity: 5 to 85% R.H. (Not freezing and condensing at low temperature)	
Max. operating speed	20 times/min. (at nominal switching capacity) Operating frequency of 5A 250V AC is 6 times/min. (ON : OFF = 1 s : 9 s)	
Unit weight	Approx. 3g 15 oz	
Operating function	Single Side Stable Type	

[Dimensions](#)
[A List of Part Numbers in This Series](#)
[Information on Compliance with Standards](#)
[Accessories \(Option\)](#)

[Return to top](#)

Information on Compliance with Standards

Standard Name	Status	Information on Compliance	
UL/C-UL	Approval	File No.	E43149
		Rating	5A 250V AC Resistive 40°C 50,000cycles 5A 250V AC Resistive 90°C 10,000cycles 5A 30V DC General use 40°C 50,000cycles 5A 30V DC 3A 250V AC General use 90°C 10,000cycles 3A 250V AC Resistive 40°C 100,000cycles 3A 30V DC General use 40°C 100,000cycles B300, R300 Pilot Duty 40°C 6,000cycles
		Remarks	E479891 Class I, Division2, Groups A, B, C, D Hazardous Location (ANSI/ISA 12.12.01-2015, CAN/CSA C22.2 No.213-15)
		Last update	December 21, 2015
CSA	N/A	File No.	-

Standard Name	Status	Information on Compliance	
		Rating	-
		Remarks	CSA standard certified by C-UL
		Last update	December 21, 2015
TUV	Approval	File No.	B 16 01 13461 348
		Rating	5A 250V AC (cos =1.0) 40°C 50,000cycles 5A 250V AC (cos =1.0) 90°C 10,000cycles 5A 30V DC (0ms) 40°C 50,000cycles 5A 30V DC (0ms) 90°C 10,000cycles 3A 250V AC (cos =1.0) 40°C 100,000cycles 3A 30V DC (0ms) 40°C 100,000cycles
		Insulation distance (between contact and coil) Clearance distance: 5.29mm Cleeepage distance: 5.35mm	
		Remarks	-
		Last update	January 7, 2016

Please take a few moments to answer these questions about our website. Thank you.

Mark on products*	
-------------------	---

* The "Mark on products" field shows the standards' certificate type marked to products. Note that not all certified products have a certificate mark affixed to them.



[Dimensions](#)

[A List of Part Numbers in This Series](#)

[Accessories \(Option\)](#)

[Return to top](#)

Accessories (Option)

 + Favorite	 + Favorite
Product Number: PA1a-PS	Product Number: PA1a-PS-H
Part Number: APA831	Part Number: APA832
Product: PA Relay Standard type terminal socket	Product: Self clinching type terminal socket
Product name: PC board socket	Product name: Self clinching type terminal socket

[Return to top](#)

CONTACT US If you have any questions, please select the option below to contact us or find answers.

[CONTACT BY EMAIL / PHONE](#)

[FIND LOCAL OFFICE](#)

[SEARCH FAQ](#)

[Return to top](#)

Easy to understand : yes no
 Easy to find the information you need : yes no
 Practical for your work : yes no

[Comments about our website.](#)

[Business](#) > [Industrial Devices](#) > [Automation Controls Top](#) > [Components & Devices](#) > [Relays](#) > [Power Relays \(Over 2A\)](#) > [PA-N Relays](#) > [Part Number > APAN3124](#)

Business Solutions Communication Solutions Security Systems Personal Computer Professional AV Document & Imaging Solutions
Terminal Solutions IT Solutions Recording Media

Industrial Global Home capacitors Sensors Batteries Electronic Materials resistors Thermal Management Solutions
EMC Components, Circuit Protection Factory Automation, Welding Machines Inductors (Coils) Input Devices
Industrial Devices, Recording Media Motors, Compressors Custom & Module Devices Materials Semiconductors
Relays, Connectors

Eco Solutions Eco Solutions

Healthcare Healthcare

[Consumer](#) [About Us](#) [News](#) [Panasonic Websites around the World](#)

[Print](#)

[Page top](#)

[Area / Country](#)

Copyright © Panasonic Corporation
[Site Map](#) | [Terms of Use](#) | [Privacy](#) | [Global Home](#)