

General Purpose Relays R2N/R4N Miniature Power Plug-in Relays



R2N Miniature Blade Type Relay



R4N Miniature Blade Type Relay



The Relpol R2N and R4N General Purpose Miniature Power Relays, typically called “miniature cube type” in the industry, offer high reliability and ruggedness without sacrificing the convenience and economy users have come to expect from relays in this size class. This line of plug-in devices is well suited to any application where a dependable low cost control relay is required.

Versatile design for any application

The R2N miniature power relay is rated at 12 amps resistive @240VAC and is available in a 2PDT (2 form-C contacts) contact arrangement. The R4N relay is rated at 6 amps resistive @240VAC and available in a 4PDT (4 form-C contacts) contact design.

The relay contact materials are cadmium-free and are made of highly reliable silver nickel (AgNi) which can perform to currents as low as 5mA@5V. For lower level signal applications, the R4N is also available with silver nickel gold plated contacts for circuits 2mA.

Each relay style is available in ten coil voltages from 6V DC to 110V DC and 6V AC to 240V AC.

Extremely rugged and reliable

The R2N and R4N relays provides long lasting high quality contact reliability even after millions of operations, due to their hard silver contacts with a mechanical life of 20 million cycles, and high contact switching capacity.

Convenient features

All R Series miniature power relay features a mechanical “flag” and a one piece “push-to-test button/latching” lever. The “push-to-test” button permits a momentary testing of the relay contacts. The “latching” lever allows the relay contacts to remain closed for longer testing periods until released back to normal.

These standard features save time and labor when troubleshooting control circuitry.

A LED position indicator that shows whether the relay is energized and that the contacts have changed over is available as standard. All relays with DC coils are bi-polar, which means polarity input can either be +/- or -/+ to energize the coil.

DIN-rail mounted relay sockets

The GZT relay sockets offer a unique look in an IEC slim design style. The sockets can be DIN-mounted or screwed directly onto the panel. The socket terminals are fully opened and pin numbers are clearly identified. The relays are easily secured and fastened to the relay sockets. For high vibration applications, optional retainer clips are available to firmly hold the relays to the socket base.

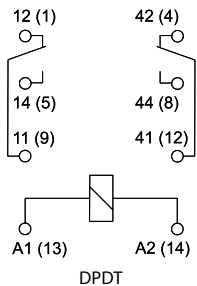
Safety Approvals

The R2N and R4N are UL recognized, CSA certified, VDE certified and CE marked which meets the requirements of all important international approval organizations, making them ideal for use in both domestic and export equipment.

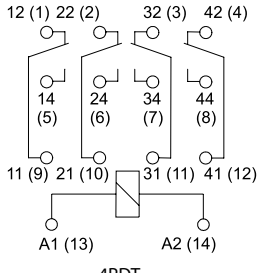


R4N relay and GZT4 socket with GZT4-0040 retainer clip

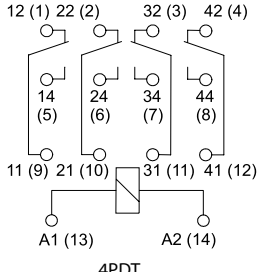
Plug-in Relays 2 Pole (Form C)- Miniature Blade Type ❶

R2N Relay	Description	Position Indication	Diagram (pin side view)	Coil Voltage	Catalog Number	Pkg Qty
	12A DPTDT 2 Pole (2 Form C) Single AgNi Contact Features: Push-to-test/ Latching Lever as standard Built-in LED Bi-polar input for DC versions	Indicating Flag Electrical LED		6VDC	R2N-2012-23-1006-WTL	10
				12VDC	R2N-2012-23-1012-WTL	
				24VDC	R2N-2012-23-1024-WTL	
				48VDC	R2N-2012-23-1048-WTL	
				110VDC	R2N-2012-23-1110-WTL	
				6VAC	R2N-2012-23-5006-WTL	
				12VAC	R2N-2012-23-5012-WTL	
				24VAC	R2N-2012-23-5024-WTL	
				120VAC	R2N-2012-23-5120-WTL	
				240VAC	R2N-2012-23-5240-WTL	

Plug-in Relays 4 Pole (Form C) - Miniature Blade Type ❶

R4N Relay	Description	Position Indication	Diagram (pin side view)	Coil Voltage	Catalog Number	Pkg Qty
	6A 4PDT 4 Pole (4 Form C) AgNi Contacts Features: Push-to-test/ Latching Lever as standard Built-in LED Bi-polar input for DC versions	Indicating Flag Electrical LED		6VDC	R4N-2014-23-1006-WTL	10
				12VDC	R4N-2014-23-1012-WTL	
				24VDC	R4N-2014-23-1024-WTL	
				48VDC	R4N-2014-23-1048-WTL	
				110VDC	R4N-2014-23-1110-WTL	
				6VAC	R4N-2014-23-5006-WTL	
				12VAC	R4N-2014-23-5012-WTL	
				24VAC	R4N-2014-23-5024-WTL	
				120VAC	R4N-2014-23-5120-WTL	
				240VAC	R4N-2014-23-5240-WTL	

Plug-in Relays 4 Pole (Form C) - Miniature Blade Type, Low Level Applications ❶

R4N Relay	Description	Position Indication	Diagram (pin side view)	Coil Voltage	Catalog Number	Pkg Qty
	6A 4PDT 4 Pole (4 Form C) AgNi/Au Gold Plated Contacts 2mA 5V Features: Push-to-test/ Latching Lever as standard Built-in LED Bi-polar input for DC versions	Indicating Flag Electrical LED		6VDC	R4N-2314-23-1006-WTL	10
				12VDC	R4N-2314-23-1012-WTL	
				24VDC	R4N-2314-23-1024-WTL	
				48VDC	R4N-2314-23-1048-WTL	
				110VDC	R4N-2314-23-1110-WTL	
				6VAC	R4N-2314-23-5006-WTL	
				12VAC	R4N-2314-23-5012-WTL	
				24VAC	R4N-2314-23-5024-WTL	
				120VAC	R4N-2314-23-5120-WTL	
				240VAC	R4N-2314-23-5240-WTL	

❶ The standard features of "Push-to-test/Latching" lever can be easily removed and plugged with an accessory plug or push-to-test only button.

See installation guide and accessory plugs/push-to-test buttons on next page.