

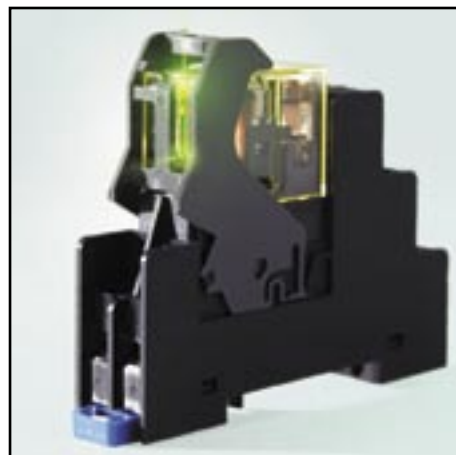


RJ Series Relays

Features

- Compact size: 12.7 x 27 x 28.8 mm
- Contact rating: 8A (DPDT), 12A (SPDT)
- Operational life: 200K cycles at full resistive load; 50 million cycles, no load
- Optional, green, non-polarized LED
- RoHS compliant

RJ relays, the newest addition to our relay family, were designed with the same attention-to-detail IDEC is known for. One feature that exemplifies this is an optional LED. It uses a unique light guide to give you a brighter and more noticeable status indicator from multiple directions.



Specifications

Specifications				RJ1S		RJ2S		
General information	No. of poles			1		2		
	Contact Configuration			SPDT		DPDT		
	Contact Rating			12A		8A		
	Contact Material			Silver-Nickel alloy				
	Contact Resistance			50 milliohms max				
	Operating Time			15 ms max				
	Release Time			10 ms max				
	Dielectric Strength	Between contact and coil Between contacts		5,000VAC, 1 minute 1,000VAC, 1 minute				
	Vibration Resistance	Damage limits Operating extremes		10-55Hz, amplitude 0.75mm 10-55Hz, amplitude 0.75mm				
	Shock Resistance	Damage limits Operating extremes		100m/s ² min (10G) 1,000m/s ² min (100G)				
	Mechanical Life	AC DC		30,000,000 operations 50,000,000 operations				
	Electrical Life @ Full Rated Load	AC DC		200,000 operations 100,000 operations				
	Operating Temperature			-40 to 70° C				
	Operating Humidity			5 to 85% RH				
	Dimensions (H x W x D mm)			12.7 x 27 x 28.8				
Weight (Approx.)			19g					
Contact Ratings	Contact Load Ratings		Resistive Load (Max)	NO Contact	12A @ 250VAC/30VDC		8A @ 250VAC/30VDC	
				NC Contact	12A @ 250VAC; 6A @ 30VDC		8A @ 250VAC; 4A @ 30VDC	
			Inductive Load (Max)	NO Contact	7.5A @ 250VAC; 6A @ 30VDC		4A @ 250VAC; 4A @ 30VDC	
				NC Contact	7.5A @ 250VAC; 3A @ 30VDC		4A @250VAC; 2A @ 30VDC	
	Min Applicable Load (reference value)			100mA @ 5VDC		10mA @ 5VDC		
	Contacts Max Power Allowed		Resistive Load (Max)	NO Contact	AC: 3,000VA; DC: 360W		AC: 2,000VA; DC: 240W	
				NC Contact	AC: 3,000VA; DC: 180W		AC: 2,000VA; DC: 120W	
			Inductive Load (Max)	NO Contact	AC: 1,875VA; DC: 180W		AC: 1,000VA; DC: 120W	
				NC Contact	AC: 1,875VA; DC: 90W		AC: 1,000VA; DC: 60W	
	Coil Ratings	Coil Sensitivity	Nominal Voltage	Nominal Current	Coil Resistance	Power Consumption	Pull-in Voltage	Drop-Out Voltage
DC Coil		12V	48mA	271Ω	0.53W	70% Max	10% Min	170%
		24V	25.7mA	1,080Ω				160%
		100-110V	5.2-5.7mA	18,870Ω				
AC Coil (60Hz)		24V	41.1mA	243Ω	0.9VA	80% Max	30% Min	140%
		120V	8.1mA	5,270Ω				
		240V	4.1mA	21,530Ω				

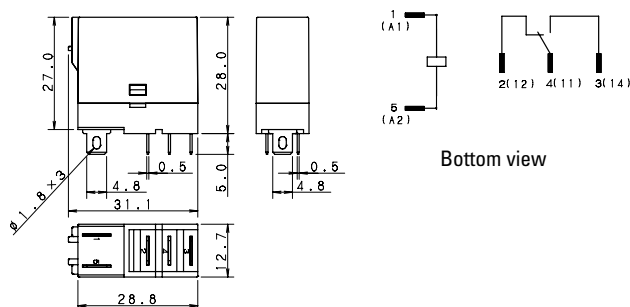
Specifications con't on following page

		SJ1S	SJ2S
Sockets	Rated Insulation Voltage	250V AC/DC	
	Applicable Wire	Max up to 2 - #14 AWG	
	Applicable Crimping Terminal	2mm ² x 2	
	Screw Size	M3 Slotted-Phillips screw	
	Weight	30g	34g

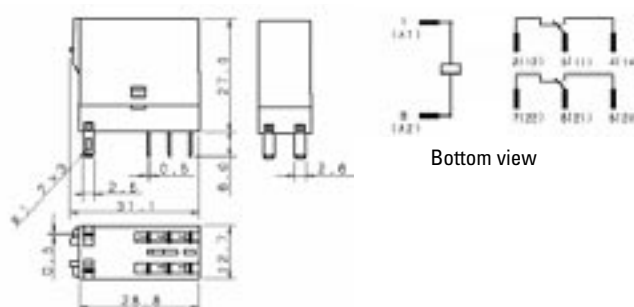
Ordering Information

R J S - C - 		
Contact Configuration	Options	Coil Voltage
1 - SPDT 2 - DPDT	Blank - Standard L - LED	D12 - 12VDC; D24 - 24VDC; D100 - 100-110VDC; A24 - 24VAC; A120 - 120VAC; A240 - 240VAC

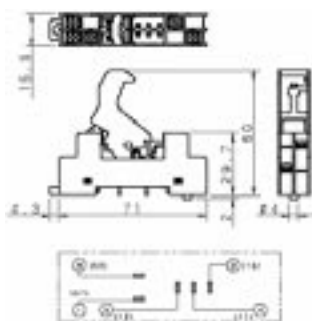
RJ1S Dimensions



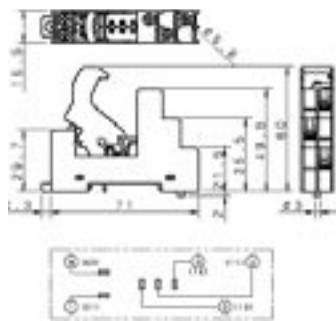
RJ2S Dimensions



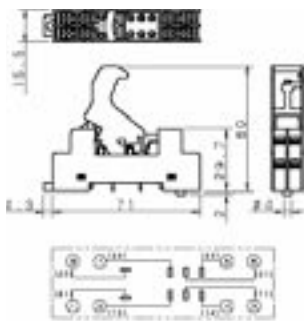
SJ1S-05B Dimensions



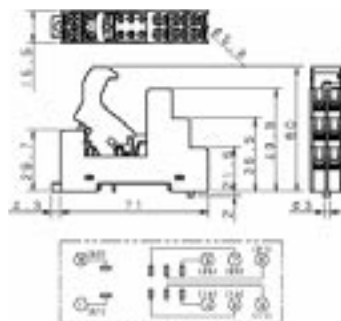
SJ1S-07L Dimensions



SJ2S-05B Dimensions



SJ2S-07L Dimensions



For more information on these and other IDEC relays, visit:

www.idec.com/relay

For more information call IDEC at:
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Fax: 408-745-5258 • www.idec.com

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Catalog No. RJ9Y-DS100-0 06/05 10K

Accessory part numbers	Description
SJ1S-05B	SPDT Standard Screw Terminal
SJ1S-07L	SPDT Finger-safe Screw Terminal
SJ2S-05B	DPDT Standard Screw Terminal
SJ2S-07L	DPDT Finger-safe Screw Terminal