IDEC Relays

RJ Series – General Purpose Relays

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.

Key features of the RJ series include:

- 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

		RJ1S	RJ2S	
No. of poles		1	2	
Contact Configu	ıration	SPDT	DPDT	
Contact Rating		12A 8A		
Contact Materi	al	Silver-Nickel alloy		
Contact Resista	ince	50 milliohms max		
Operating Time		15 ms max		
Release Time		10 ms max		
Dielectric	Between contact and coil	5,000VAC, 1 minute		
Strength	Between contacts	1,000VAC, 1 minute		
Vibration	Damage limits	10-55Hz, amplitude 0.75mm		
Resistance	Operating extremes	10-55Hz, amplitude 0.75mm		
Shock	Damage limits	100m/s ² min (10G)		
Resistance	Operating extremes	1,000m/s ² min (100G)		
Mechanical	AC	30,000,000 operations		
Life	DC	50,000,000 operations		
Electrical Life @ Full Rated	AC	200,000 operations		
Load	DC e.	100,000 operations		
Operating Temp	perature	-40 to 70º C		
Operating Hum	idity	5 to 85% RH		
Dimensions (H	x W x D mm)	12.7 x 27 x 28.8		
Weight (Approx	(c) red	19g		



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® File No. LR35144

UL Recognized

Ordering Information

Consult factory for other voltages.

L = LED

Basic Part No. Coil Voltage: RJ □ S - C □ - [# of Contacts -1 = SPDT**Coil Voltage Code** 2 = DPDTD12 = 12V DC D24 = 24V DC Option D100 = 100-110V DC (Blank) = Standard

A24 = 24V ACA120 = 120V AC

A240 = 240V AC

Part Numbers

Туре	Contacts	Coil Voltage	Standard	with Indicator Light
		12V DC	RJ1S-C-D12	RJ1S-CL-D12
		24V DC	RJ1S-C-D24	RJ1S-CL-D24
	SPDT	100-110V DC	RJ1S-C-D100	RJ1S-CL-D100
	3101	24V AC	RJ1S-C-A24	RJ1S-CL-A24
		120V AC	RJ1S-C-A120	RJ1S-CL-A120
		240V AC	RJ1S-C-A240	RJ1S-CL-A240
		12V DC	RJ2S-C-D12	RJ2S-CL-D12
		24V DC	RJ2S-C-D24	RJ2S-CL-D24
	DPDT	100-110V DC	RJ2S-C-D100	RJ2S-CL-D100
	וטיזט	24V AC	RJ2S-C-A24	RJ2S-CL-A24
		120V AC	RJ2S-C-A120	RJ2S-CL-A120
		240V AC	RJ2S-C-A240	RJ2S-CL-A240

Socket Part Numbers (DIN Rail or Panel Mount):

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			
SJ9Z-C	Replacement Locking Lever			



Ratings

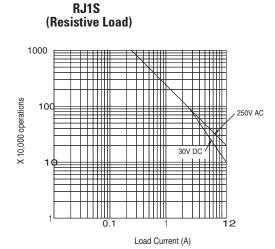
Coil Ratings at 20°C (relays with LED indicator)

Coil Sensitivity	Nominal Voltage	Nominal Current	Coil Resistance	Power Consumption	Pull-in Voltage	Drop-Out Voltage	Max Allowable Voltage
DC Coil	12V	48mA	271Ω	0.53W	70% Max	10% Min	170%
	24V	25.7mA	1,080Ω				
	100-110V	5.2-5.7mA	18,870Ω				160%
AC Coil (60Hz)	24V	41.1mA	243Ω	0.9VA	80% Max	30% Min	
	120V	8.1mA	5270Ω				140%
	240V	4.1mA	21,530Ω				

Contact Ratings

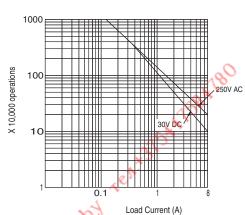
Contact natings					
A STATE OF THE STA		Contact	RJ1S	RJ2S	
Contact Load Ratings	Resistive Load (Max)	NO Contact	12A @ 250VAC/30VDC	8A @ 250VAC/30VDC	
		NC Contact	12A @ 250VAC; 6A @ 30VDC	8A @ 250VAC; 4A @ 30VDC	
	Inductive Load (Max)	NO Contact	7.5A @ 250VAC; 6A @ 30VDC	4A @ 250VAC; 4A @ 30VDC	
	muucuve Loau (wax)	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	
	Hesistive Load (Wax)	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	
	maddive Load (Max)	NC Contact	AC: 1,875VA; DC: 90W	AC: 1,000VA; DC: 60W	

Electrical Life Curves

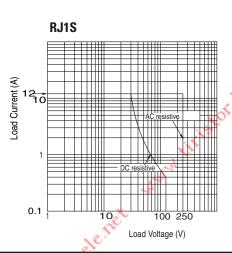


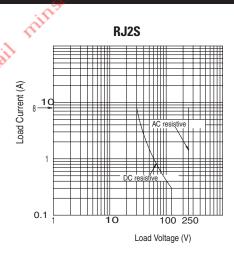
IDEC Relays



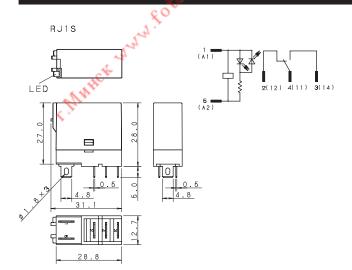


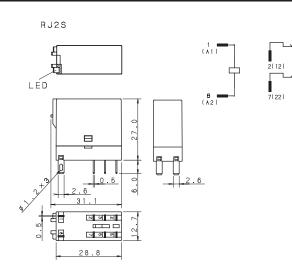
Maximum Switching Capacity





Dimensions





Dimensions are in mm.