RY2KS Series Latch Relays

Self-maintained Latch Relays DPDT — 3A contact capacity

The RY2KS series latch relays have a self-holding function using permanent magnets in the magnetic circuit. Applying a voltage on the set (or reset) coil operates the armature and retains the contacts in that position until the opposite coil is energized, hence the latch relays are ideal for memory and flip-flop circuit applications.

Finger-safe

DIN Rail Mount

SY4S-05C

DIN Rail Mount

SY4S-05



Sockets

RY2KS

Relay

Part Number Selection

		Part Number		
Contact	Model	Blade Terminal	Coil Voltage Code	
DPDT	Basic	RY2KS-U*	AC6, AC12, AC24, AC110 DC6, DC12, DC24, DC48, DC110	
	With Check Button	RY2KS-UC*		
			Ordering Information When ordering, specify the Part No. and coil v	
			(example) RY2KS-U AC120	

Panel Mount

SY4S-51

PCB Mount

SY4S-61

SY4S-62

Part No.

Part Number

SFA-202

SY4S-51F1

SFA-302 SY4S-51F3

SY4S-02F3 Notes:

(SY4S-02F3)

-Coil Voltage Code

Description use with SY4S-05

SY4S-05C

SY4S-61

use with SY4S-51

use with SY4S-62

1. For the relays with check button, use the parenthesized hold-down springs shown in the above table. When the spring is used, sockets cannot be mounted closely

2. Use the hold-down springs in environments where the relays are subject to

side by side.

vibrations or shocks.

Springs & Clips (optional)

Relays & Sockets

_	
Ξ	
B	
S	

Display Lights

IDEC

RY2KS Series

Switches & Pilot Lights

Specifications				
Gold-plated silver				
50 mΩ maximum (initial value)				
25 ms maximum (at the rated voltage)				
25 ms maximum (at the rated voltage)				
AC: 1.6 VA (50 Hz), 1.5 VA (60 Hz) DC: 1.2W				
100 M Ω minimum (500V DC megger)				
Between live and dead parts:1,500V AC, 1 minuteBetween contact and coil:1,000V AC, 1 minuteBetween contacts of different poles:1,000V AC, 1 minuteBetween contacts of the same pole:700V AC, 1 minute				
Electrical: 1800 operations/h maximum Mechanical:18,000 operations/h maximum				
Coil: 85°C maximum, Contact: 65°C maximum				
0 to 60 m/s² (maximum frequency: 55 Hz), Frequency: 5 to 55 Hz, Amplitude: 0.5 mm				
200 m/s ² minimum				
5,000,000 operations minimum				
200,000 operations minimum				
-5 to +40°C (no freezing)				
67g				

Coil Ratings

5							
Data	d Valtara (V)	Rated Current (mA) ±15% at 20°C		Coil Resistance (Ω)	Operation Characteristics (values at 20°C)		
nate	d Voltage (V)	50Hz	50Hz 60Hz		Maximum Continuous Applied Voltage	Set and Reset Voltage	
(z	6	260	250	6.3		80% maximum	
AC (50/60Hz)	12	120	115	30.3	110%		
(20	24	58	56	132	110%		
A	120	11.2	10.8	3,840			
DC	6	200		30		80% maximum	
	12	100		120			
	24	50		480	110%		
	48	2	25			maximum	
	110 11		10.000				

Contact Ratings

	Maximum Contact Capacity						
Switching	Continuous	Allowable Contact Power Rated Lo				d	
	Voltage	Current	Resistive Load	Inductive Load	Voltage (V)	Res. Load	Ind. Load
		ЗA			110 AC	3A	1.5A
	250V AC		600VA AC	176VA AC	220 AC	3A	0.8A
	125V DC		90W DC	45W DC	30 DC	3A	1.5A
					100V DC	0.2A	0.12A

Note: Inductive load for the rated load — $\cos \varphi = 0.3$, L/R = 7 ms

Terminal Blocks

UL Ratings

•					
Voltage	Resistive	General use			
240V AC	3A	0.8A			
120V AC	ЗA	1.5A			
30V DC	ЗA	—			

CSA Ratings

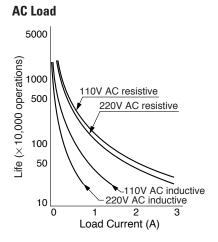
Voltage	Resistive	General use		
240V AC	3A	0.8A		
120V AC	3A	1.5A		
30V DC	ЗA	1.5A		

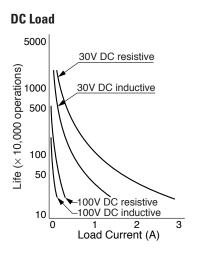
Relays & Sockets

Socket Specifications

	Sockets	Terminal	Electrical Rating	Wire Size	Torque
DIN Rail Mount	SY4S-05	M3 screw with captive wire clamp	300V, 7A	Maximum up to 2—#14AWG	5.5 - 9 in ●lbs
Sockets	SY4S-05C	M3 screw with captive wire clamp, fingersafe	300V, 7A	Maximum up to 2—#14AWG	5.5 - 9 in●lbs
Through Panel Mount Socket	SY4S-51	Solder	300V, 7A	—	—
PCB Mount Sockets	SY4S-61	Solder/PCB Mount	300V, 7A	—	—
FUD WIDUIL SUCKELS	SY4S-62	Solder/PCB Mount	250V, 7A	—	—

Electrical Life Curve





Internal Connection (View from Bottom)

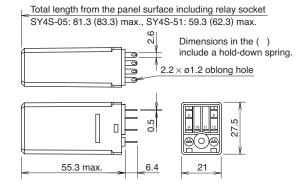
(Shown in unlatched/reset position)



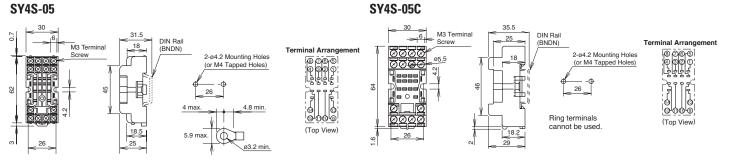
IDEC

Display Lights

Dimensions (mm)



Standard DIN Rail Mount Socket SY4S-05



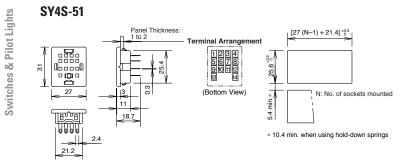
Finger-safe DIN Rail Mount Socket

IDEC

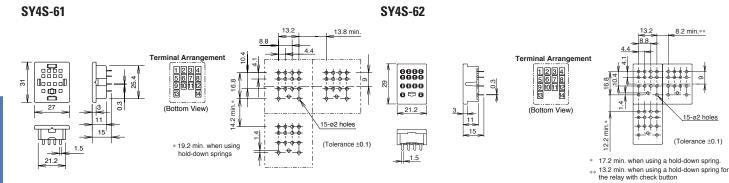
RY2KS Series

Relays & Sockets

Through Panel Mount Socket



PCB Mount Sockets



Display Lights

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

IDEC:

RY2KS-UAC120VRY2KS-UCDC110VRY2KS-UCDC6VRY2KS-UDC6VRY2KS-UAC12VRY2KS-UDC24VRY2KS-UAC6VRY2KS-UDC12VRY2KS-UDC48VRY2KS-UDC110VRY2KS-UCAC120VRY2KS-UAC230VRY2KS-UAC24VRY2KS-UCDC24VRY2KS-UAC220VRY2KS-UCDC48VRY2KS-UCDC48V