## RY2KS Series — Miniature Magnetic Latching Relays

Key features of the RY2KS series include:

- Standard "ice cube" base, solder lug (14-pin) termination
- Operates by pulse input and maintains condition even during power failure
- · High vibration and shock resistance
- Excellent self-holding performance
- Optional manual check button for circuit testing
- DIN rail, surface, and panel mount sockets available for a wide range of mounting applications

Silver, gold-plated		
50m $Ω$ maximum (initial value)		
5V DC, 100mA		
25ms maximum		
25ms maximum		
110% of the rated voltage		
80% of the rated voltage		
AC: approximately 1.6V (50Hz), 1.5VA (60Hz) DC:approximately 1.2W		
100M $\Omega$ minimum (with 500V DC megger)		
Between live and dead parts: 1,500V AC, 1 minute Between contact circuit and opposite coil: 1,000V AC, 1 minute Between contact circuits: 1,000V AC, 1 minute (700V between NO-NC contacts)		
1,800 operations/hour		
Coil: 85°C maximum Contact: 65°C maximum		
0 to 6G (55Hz maximum)		
20G minimum		
Electrical: over 200,000 operations (240V AC, 3A) Mechanical: over 5,000,000 operations		
-30 to +70°C		
67g (approximately)		







#### **Ordering Information**

Order standard voltages for fastest delivery. Allow extra delivery time for non-standard voltages.

> Basic Part No. **Coil Voltage:** RY2KS-U AC120V



#### **Part Numbers**

**Part Numbers: RY2KS Series** 

Termination	Contact Configuration	Standard	With Check Button
S: Solder/plug-in	DPDT	RY2KS-U	RY2KS-UC

#### Ratings

#### **Coil Ratings**

Rated Current ±15% at 20°C

Voltage	60Hz	50Hz	Coil Resistance ±10% at 20°C
6V	250mA	260mA	$6.3\Omega$
12V	115mA	120mA	30.3Ω
24V	56mA	58mA	132Ω
120V	10.8mA	11.2mA	3,840Ω
6V	200mA		30Ω
12V	100mA		120Ω
24V	50mA		480Ω
48V	25mA		1,920Ω
110V 11m		ıΑ	10,000Ω
	6V 12V 24V 120V 6V 12V 24V 48V	6V 250mA 12V 115mA 24V 56mA 120V 10.8mA 6V 200r 12V 100r 24V 50m	6V 250mA 260mA 12V 115mA 120mA 24V 56mA 58mA 120V 10.8mA 11.2mA 6V 200mA 12V 100mA 24V 50mA 48V 25mA

### **Contact Ratings**

	Resistive			Ind	luctive	
Voltage	Nominal	UL	CSA	Nominal	UL	CSA
30V DC	3A	3A	3A	1.5A	_	1.5A
100V DC	0.2A	_	_	0.12A	_	0.2A
120V AC	3A	3A	3A	1.5A	1.5A	1.5A
240V AC	3A	3A	3A	0.8A	0.8A	0.8A



2. Inductive load  $\cos \phi = 0.3$ , L/R = 7ms.

#### **Applicable Sockets**

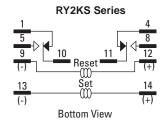
**Part Numbers: Sockets** 

Relay	Standard DIN Rail Mount	Finger-Safe DIN Rail Mount	Panel Mount	PC Mount	Spring (optional)
RY2KS	SY4S-05	SY4S-05C	SY4S-51	SY4S-61 SY4S-62	SFA-202 SY4S-51F3



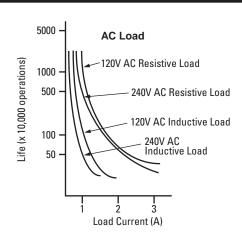
1. See Section F for details on sockets. All DIN rail mount sockets shown above can be mounted using DIN rail BNDN1000.

# **Internal Circuits**

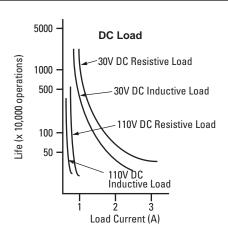


Shown in reset (unlatched) position.

#### **Electrical Life Curves**

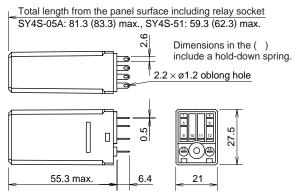


IDEC Relays



#### **Dimensions**

# Plug-in RY2KS



All dimensions in mm.