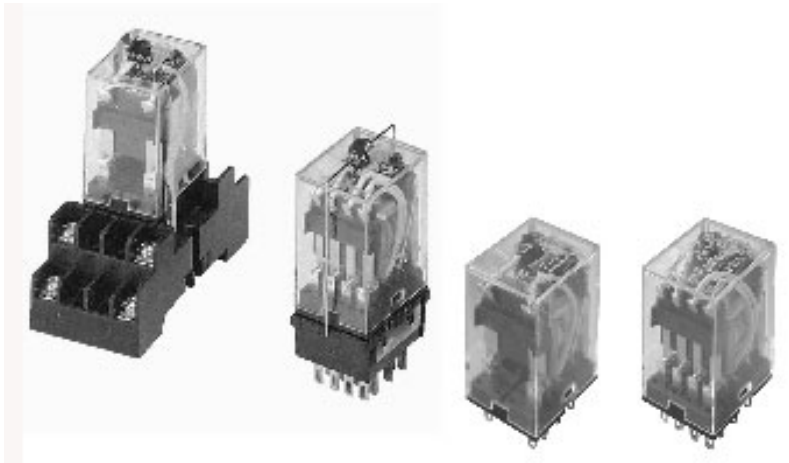


General Purpose Relay

SZR-MY series



FEATURES

- A wide range of applications from power to sequence control
- Designed small, 2-pole type breaks 5A load and 4-pole type breaks 3A load
- High contact deposition resistance with Ag contact
- High dielectric strength (1,800VAC)
- High reliability and long life
- Ultra high sensitivity with quick response time
- High vibration and shock resistance
- Contains LED for output indicator
- Contains a diode to absorb counter electromotive voltage
- UL, CE approved

DESCRIPTION

SZR-MY series general purpose power relays are designed for general purpose and a wide range of applications from power to sequence controls in various factory machines and control panels.

These relays are of small size(W21.5× H36× L28) with two contact types, 2 poles(DPDT) version break 5A load and 4 poles(4PDT) version break 3A load. They are ideal for electric control panels which require stable and reliable relays.

One standard type and three special types are available – LED self-contained, diode self-contained and LED & diode self-contained. These options allow the customers to select the appropriate model based on their needs.

A rapid response and excellent support is ensured via Honeywell's global sales and distribution channels.

APPLICATIONS

- Control Panels
- Elevator Panels
- Machine tools
- Test equipment

WARNINGS



- DO NOT USE this product as safety or emergency devices or in any other applications where failure of the product could result in a personal injury
- This information presented in this product sheet is for reference only. DO NOT USE this document as product installation information.

MODEL SELECTION GUIDE

■ Relay

Type	Terminal	Contact	Catalog Listing
Standard	Plug-in/Solder	DPDT	SZR-MY2-1
		4PDT	SZR-MY4-1
	PCB	DPDT	SZR-MY2-1P
		4PDT	SZR-MY4-1P
LED Indicator	Plug-in/Solder	DPDT	SZR-MY2-N1
DIODE surge suppression		4PDT	SZR-MY4-N1
		DPDT	SZR-MY2-D1
LED Indicator + DIODE surge suppression		4PDT	SZR-MY4-D1
		DPDT	SZR-MY2-X1
		4PDT	SZR-MY4-X1

Select the catalog listing and specify the needed coil voltage rating[e.g., SZR-MY2-N1 AC110V]

■ Socket

Relay Contact \ Mounting	Track mounting	Solder terminal	PCB terminal
DPDT	SZX-SMF-08N	SZX-SMB-08	SZX-SMB-08P
4PDT	SZX-SMF-14N	SZX-SMB-14	SZX-SMB-14P

TECHNICAL INFORMATION

■ Contact Ratings

Type \ Ratings	DPDT		4PDT	
	Resistive load (p.f.=1)	Inductive load (p.f.=0.4, L/R=7ms)	Resistive load (p.f.=1)	Inductive load (p.f.=0.4, L/R=7ms)
Rated load	AC220V 5A, DC24V 5A	AC220V 2A, DC24V 2A	AC220V 3A, DC24V 3A	AC220V 0.8A, DC24V 1.5A
Carry current	5A		3A	
Max. operating voltage	AC 250V DC 125V		AC 250V DC 125V	
Max. operating current	5A		3A	
Max. switching capacity	1,100VA 120W	440VA 48W	660VA 72W	176VA 36W
Min. permissible load	1 mA, DC5V		1 mA, DC1V	

General Purpose Relay

SZR-MY series

■ Coil Ratings

(DPDT/4PDT)

Rated voltage (V)	Item	Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Pick-up voltage (V)	Dropout voltage (V)	Maximum voltage (V)	Power consumption (W)
		50 Hz	60 Hz		Armature OFF	Armature ON				
AC	6	214.1	183	12.2	0.04	0.08	Max. 75%	Min. 30%	110%	Approx. 1.0 to 1.2 (60Hz)
	12	106.5	91	46	0.17	0.33				
	24	53.8	46	180	0.69	1.3				
	50	25.7	22	788	3.22	5.66				
	100/110	11.7/12.9	10/11	3,750	14.54	24.6				
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1				
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07				
220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	Approx. 0.9 to 1.1 (60Hz)				
DC	6	150		40	0.17	0.33	Max. 75%	Min. 10%	110%	Approx. 0.9
	12	75		160	0.73	1.37				
	24	36.9		650	3.2	5.72				
	48	18.5		2,600	10.6	21.0				
	100/110	9.1/10		11,000	45.6	86.2				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%,-20% for AC rated current and $\pm 15\%$ for DC coil resistance.
 2. The rated current of N1 and X1 type is 4mA higher than the value in the table above.

■ Specifications

Contact material		Ag
Contact resistance		Max. 50 m Ω
Operate time		Max. 20 ms
Release time		Max. 20 ms
Operating frequency	Mechanical	18,000 operations/hour
	Electrical	1,800 operations/hour
Insulation resistance		Min. 100 M Ω at DC 500V
Dielectric withstand voltage		AC 1,800V 50/60 Hz for 1 minute between non-continuous current carrying terminals and between coil terminals and contact terminals AC 1,000V 50/60 Hz for 1 minute between contacts of same polarity
Vibration resistance	Mechanical durability	10~55Hz at double amplitude of 1.0mm
	Malfunction durability	10~55Hz at double amplitude of 1.0mm
Shock resistance	Mechanical durability	1,000 m/s ² (Approx. 100G)
	Malfunction durability	200 m/s ² (Approx. 20G)
Service life	Mechanical	AC : Min. 50million operations (at operating frequency of 18,000 operations/hour) DC : Min. 100million operations (at operating frequency of 18,000 operations/hour)
	Electrical	DPDT : Min. 500,000 operations (at operating frequency of 1,800 operations/hour) 4PDT : Min. 200,000 operations (at operating frequency of 1,800 operations/hour)
Weight		Approx. 35g

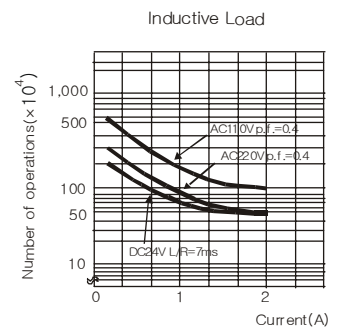
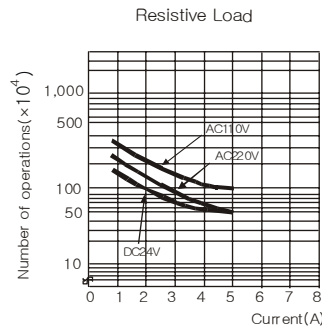
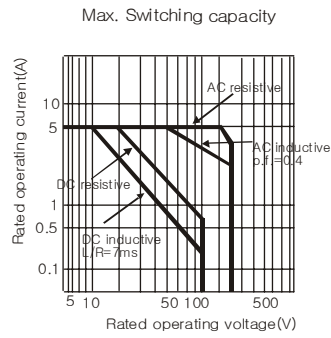
Note : The data shown above are of initial value

General Purpose Relay

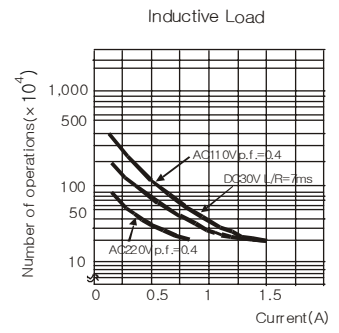
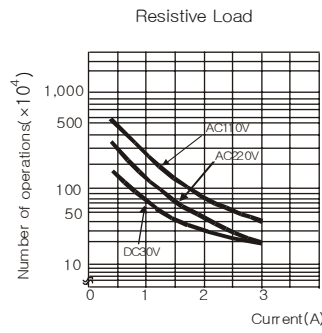
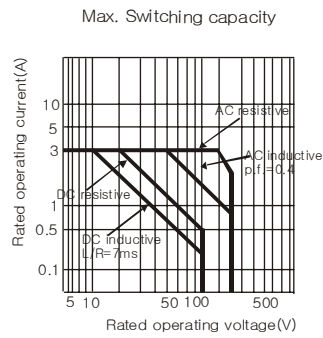
SZR-MY series

Characteristic Data

DPDT



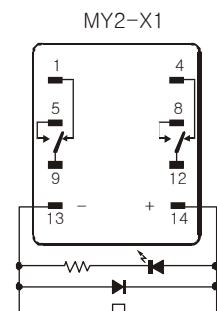
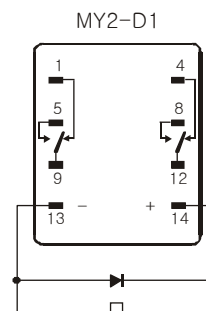
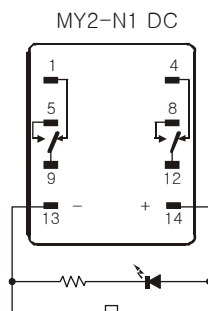
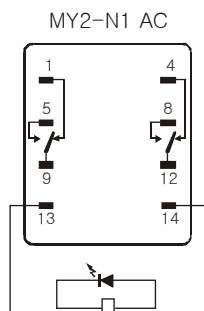
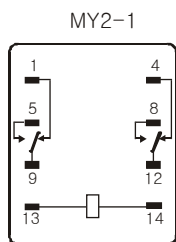
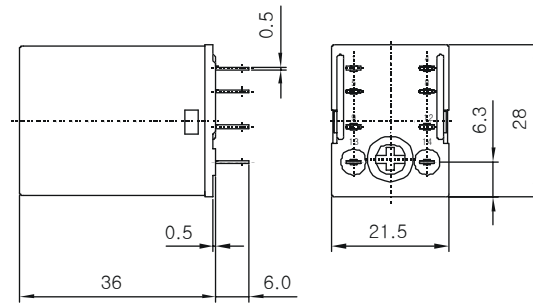
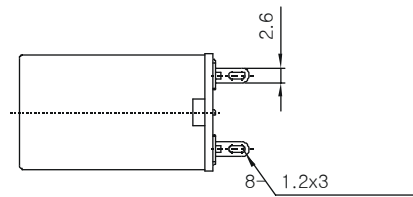
4PDT



Dimension, circuit diagram, terminal arrangement and mounting hole

– Relays

SZR-MY2-1
SZR-MY2-N1
SZR-MY2-D1
SZR-MY2-X1

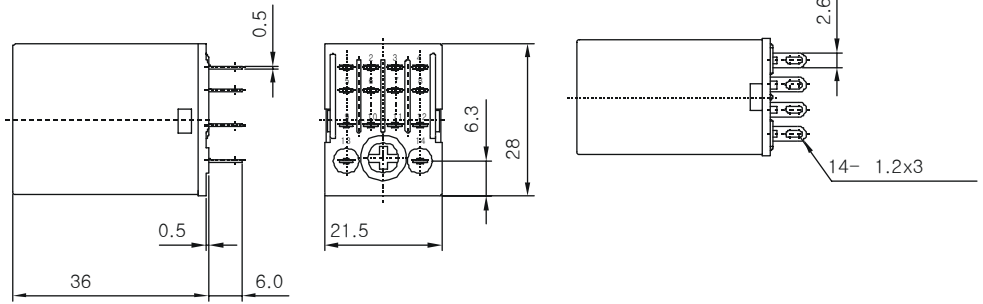


<bottom view>

General Purpose Relay

SZR-MY series

SZR-MY4-1
SZR-MY4-N1
SZR-MY4-D1
SZR-MY4-X1



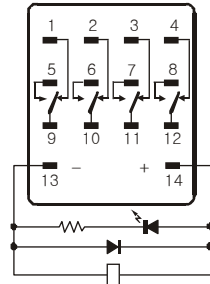
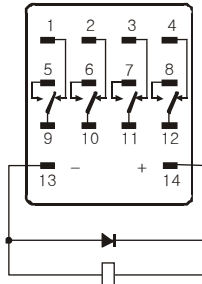
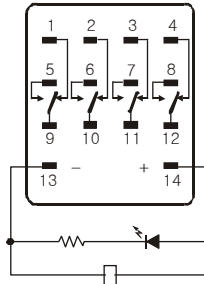
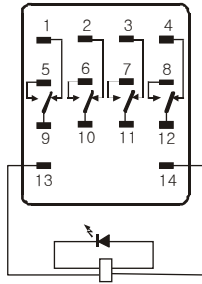
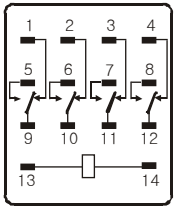
MY4-1

MY4-N1 AC

LY4-N1 DC

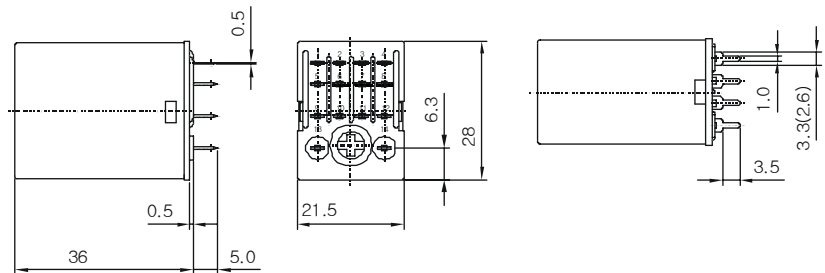
MY4-D1

MY4-X1



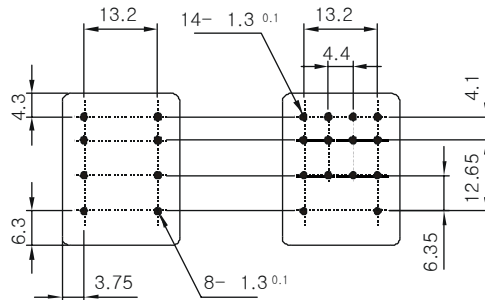
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SZR-MY2-1P
SZR-MY4-1P



DPDT

4PDT



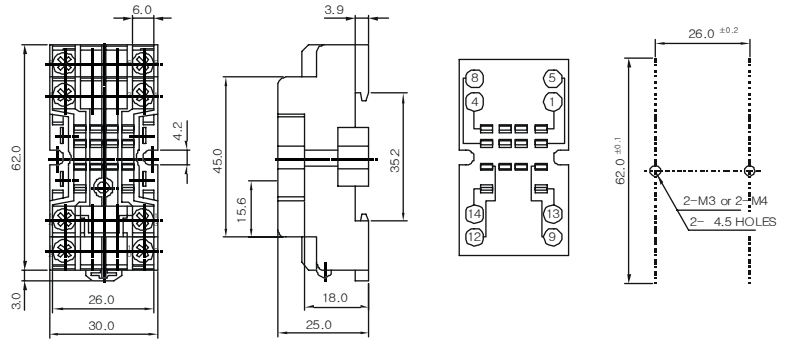
Note: The circuit diagram is same with standard type of SZR-MY2-1 / SZR-MY4-1

General Purpose Relay

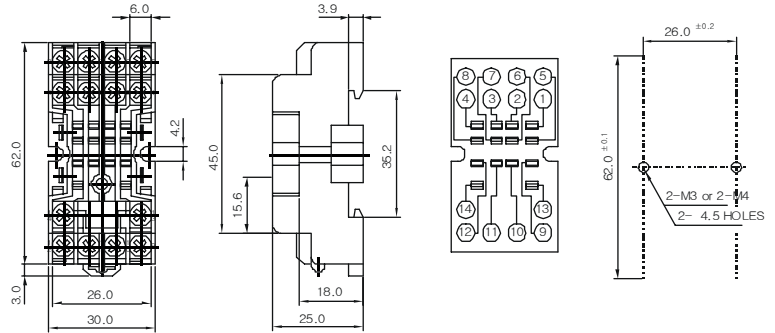
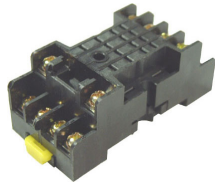
SZR-MY series

— Socket

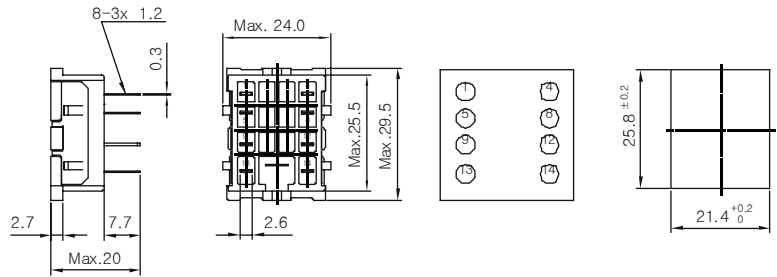
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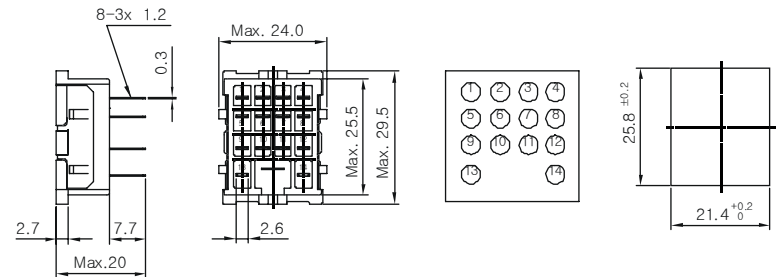
SZX-SMF-14N



SZX-SMB-08



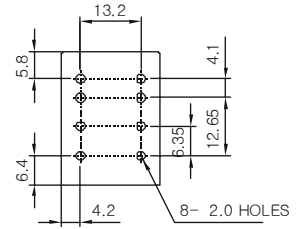
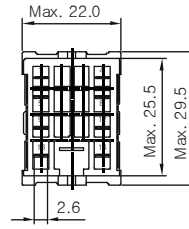
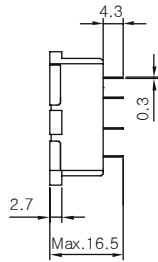
SZX-SMB-14



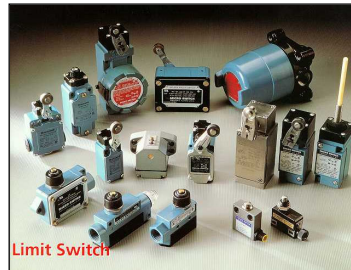
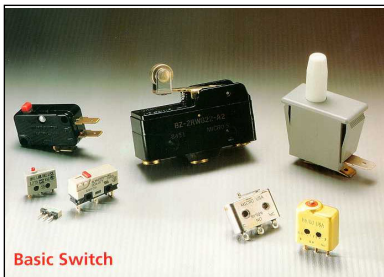
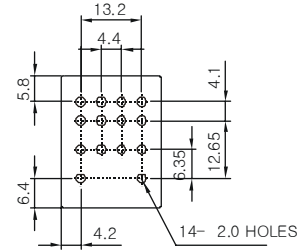
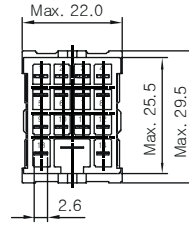
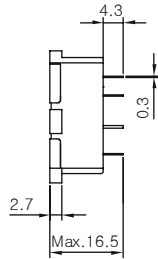
General Purpose Relay

SZR-MY series

SZX-SMB-08P



SZX-SMB-14P



In addition to the SZR-MY series, Honeywell offers one of the industry's widest range of components to meet virtually any application requirement. Please contact your local Honeywell office for more information.

General Purpose Relay

SZR-MY series

Warranty/Remedy

Honeywell warrants goods of its manufacture as being free of defective material and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during that period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and **is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.**

While we provide application assistance, personally and through our literature, it is up to the customer to determine the suitability of the product in the application.

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