

Relay

Honeywell



SENSING AND CONTROL

Product Range Guide

For innovation that's well apart, there's only Honeywell Sensing and Control.

With more than 50,000 products ranging from snap-action, limit, toggle, and pressure switches to position, speed, pressure, and airflow sensors, Honeywell Sensing and Control (S&C) has one of the broadest sensing and switching portfolios available.

Honeywell sensor, switch, and control components are tailored to exact specifications for stronger performance, longer productivity, and increased safety. Enhanced accuracy and durability are built into every part, improving output and endurance. For our customers, this can reduce expenditures and operational costs. Our global footprint and channels help to competitively price such components for your chosen application and provide immediate technical support.

Our expertise in aerospace and defense, transportation, medical, and industrial industries means we offer products and solutions for a wide range of applications. But, an impressive product line is only one part. We possess unique engineering expertise and value-added capabilities.

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With a 75-year legacy in the switch and sensor business, Honeywell S&C has earned a reputation for reliability and excellence. Our strong product designs, Six Sigma Plus manufacturing environment, and robust testing facilities help provide quality out of the box, as well as enhanced, sustainable performance down the line.

Global service, sourcing, and manufacturing. Industry-leading engineers. Value-added assemblies and solutions. Construction to required specifications. A one-stop, full-service, globally competitive supplier... Honeywell Sensing and Control.

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SZR-MY/LY SERIES

Relay

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 small sizes with two contact types, MY series 2 pole (DPDT) version break 5A load and 4 poles (4PDT) version break 3A load. LY series version break 10A load. They are ideal for electric control panels which require stable and reliable relays.

One standard type and two special types are available, general purpose type-with LED, and without LED. These options allow the customers to select the appropriate model based on their needs.

FEATURES

- ◆ Small size, standard install size
- ◆ MY2: Ag alloy, 2-pole type breaks 5A load
- ◆ MY4: Ag alloy, 2-pole type breaks 3A load
- ◆ LY Series: Ag alloy, breaks 10A load
- ◆ LY series with Arc barrier to prevent Arc interruption
- ◆ High reliability and long life
- ◆ High sensitivity with quick response time $\leq 20\text{ms}$
- ◆ High vibration and shock resistance
- ◆ With LED
- ◆ CE CQC approved

APPLICATION

- ◆ Control panels / elevator panels / control cabinet
- ◆ Control system for elevator
- ◆ Machine tools control / factory logic control
- ◆ Test Equipment
- ◆ Transmission and Distribution of Electrical Energy

MODEL

SZR-MY 2 - S- N 1 AC110/120V

① ② ③ ④ ⑤ ⑥ ⑦

① General relay

② Current level

MY: 5A or 3A

LY: 10A

③ Circuit

2: DPDT

4: 4PDT

④ Purchase type

S: NULL

⑤ Option

Blank: Without LED

N: With LED

⑥ 1: Null

⑦ Voltage level

AC6V = 6 VAC

AC12V = 12 VAC

AC24V = 24 VAC

AC48V = 48 VAC

AC110/120V = 110/120 VAC

AC220V = 220 VAC

DC6V = 6 VDC


DC12V = 12 VDC

DC24V = 24 VDC


DC48V = 48 VDC

DC110V = 110 VDC


Options: SZR-MY2 SERIES PARAMETER

		SZR-MY2-S-1 AC6V		SZR-MY2-S-1 AC12V		SZR-MY2-S-1 AC24V		SZR-MY2-S-1 AC48V		SZR-MY2-S-1 AC110/120V		SZR-MY2-S-1 AC220V		SZR-MY2-S-1 DC6V		SZR-MY2-S-1 DC12V		SZR-MY2-S-1 DC24V		SZR-MY2-S-1 DC48V		SZR-MY2-S-1 DC110V		SZR-MY2-S-N1 AC6V		SZR-MY2-S-N1 AC12V		SZR-MY2-S-N1 AC24V		SZR-MY2-S-N1 AC48V		SZR-MY2-S-N1 C110/120V		SZR-MY2-S-N1 AC220V		SZR-MY2-S-N1 DC6V		SZR-MY2-S-N1 DC12V		SZR-MY2-S-N1 DC24V		SZR-MY2-S-N1 DC48V		SZR-MY2-S-N1 DC110V																																																																																																																																																																																																																																																																																																																																											
		Contact parameter		Rated current		5A																						Contact form		DPDT																						Resistance load		250VAC, 5A				30VDC, 5A				250VAC, 5A				30VDC, 5A				Switching capacity (resistance)		1250VA				150W				1250VA				150W																																																																																																																																																																																																																																																																																																			
Coil parameter		Options		Standard type, without LED										With LED										Coil voltage		6VAC		12VAC		24VAC		48VAC		110/120VAC		220VAC		6VDC		12VDC		24VDC		48VDC		110VDC		Coil resistance (ohm)		11.5		40		160		600		3750/3900		13000		40		160		630		2600		11000		Rated current(mA) 50Hz testing		215		106.9		62.4		33.3		12.6		6.5		150		75		36.9		18.5		10		Rated current (mA) 60Hz testing		190		98.2		52.2		27.8		10.8		5.4		150		75		36.9		18.5		10		Consumed power (W) 60Hz testing		1.2VA										0.9W										Voltage drop (for reted voltage)		Min. 30%										Min.10%										Min. operating voltage		Max.80% rated voltage										Max.75% rated voltage										Max. continuous operating voltage		110% rated voltage																						Min.operating valtage		80% rated voltage																																																																																																																																																																			
		Whole parameter		Operate time		Max.20hm																						Release voltag		Max.20hm																						Ambient temperature		-55 °C~70 °C																						Humidity		35%~85% RH																						Contact material		Ag alloy																						Contact resistance		max. 50 mΩ																						Electrical life		>100000 (1800ops/h)																						Mechanical life		>1000000 (18000 ops/h)																						Insulation resistance		>500zΩ (500VDC)																						Dielectric strength		Between contact										1000VAC/1min										Between contact(different pole)										1000VAC/1min										Between contact and coil										2000VAC/1min										Vibration resistance		10~55Hz, Dual amplitude:1mm																						Shock resistance		100m/s2 (about 10g)																						Weigh		35g																						Certificate		CE										CQC									

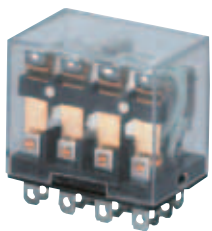
Options: SZR-MY4 SERIES PARAMETER

		SZR-MY4-S-1 AC6V		SZR-MY4-S-1 AC12V		SZR-MY4-S-1 AC24V		SZR-MY4-S-1 AC48V		SZR-MY4-S-1 AC110/120V		SZR-MY4-S-1 AC220V		SZR-MY4-S-1 DC6V		SZR-MY4-S-1 DC12V		SZR-MY4-S-1 DC24V		SZR-MY4-S-1 DC48V		SZR-MY4-S-1 DC110V		SZR-MY4-S-N1 AC6V		SZR-MY4-S-N1 AC12V		SZR-MY4-S-N1 AC24V		SZR-MY4-S-N1 AC48V		SZR-MY4-S-N1 AC110/120V		SZR-MY4-S-N1 AC220V		SZR-MY4-S-N1 DC6V		SZR-MY4-S-N1 DC12V		SZR-MY4-S-N1 DC24V		SZR-MY4-S-N1 DC48V		SZR-MY4-S-N1 DC110V	
		Contact parameter		Rated current		3A		Contact form		4PDT		Resistance load		250VAC, 3A		30VDC, 3A		250VAC, 3A		30VDC, 3A		Switching capacity (resistance)		750VA		90W		750VA		90W															
Coil parameter		Options		Standard type, without LED						With LED																																			
		Coil voltage		6VAC	12VAC	24VAC	48VAC	110/120VAC	220VAC	6VDC	12VDC	24VDC	48VDC	110VDC																															
		Coil resistance (ohm)		11.5	40	160	600	3750/3900	13000	40	160	630	2600	11000																															
		Rated current (mA) 50Hz testing		215	106.9	62.4	33.3	12.6	6.5	150	75	36.9	18.5	10																															
		Rated current (mA) 60Hz testing		190	98.2	52.2	27.8	10.8	5.4	150	75	36.9	18.5	10																															
		Consumed power (W) 60Hz testing		1.2VA						0.9W																																			
		Voltage drop (for reted voltage)		Min. 30%						Min.10%																																			
		Min. operating voltage		Max.80% rated voltage						Max.75% rated voltage																																			
		Max. continuous operating voltage		110% rated voltage																																									
		Min.operating valtage		80% rated voltage																																									
Whole parameter		Operate time		Max.20hm																																									
		Release voltag		Max.20hm																																									
		Ambient temperature		-55 °C~70 °C																																									
		Humidity		35%~85% RH																																									
		Contact material		Ag alloy																																									
		Contact resistance		max. 50 mΩ																																									
		Electrical life		>100000 (1800ops/h)																																									
		Mechanical life		>1000000 (18000 ops/h)																																									
		Insulation resistance		>500zΩ (500VDC)																																									
		Dielectric strength		Between contact						1000VAC/1min																																			
				Between contact (different pole)						1000VAC/1min																																			
				Between contact and coil						2000VAC/1min																																			
		Vibration resistance		10~55Hz, 1mm																																									
		Shock resistance		100m/s ² (10g)																																									
Weigh		35g																																											
Certificate		CE CQC																																											





Options: SZR-LY2 SERIES PARAMETER

		SZR-LY2-S-N1 AC6V	SZR-LY2-S-N1 AC12V	SZR-LY2-S-N1 AC24V	SZR-LY2-S-N1 AC48V	SZR-LY2-S-N1AC110/120V	SZR-LY2-S-N1 AC220V	SZR-LY2-S-N1 DC6V	SZR-LY2-S-N1 DC12V	SZR-LY2-S-N1 DC24V	SZR-LY2-S-N1 DC48V	SZR-LY2-S-N1 DC110V	
		Contact parameter	Rated current	10A									
Contact form	DPDT												
Resistance load	250VAC, 10A			30VDC, 10A			250VAC, 10A			30VDC, 10A			
Switching capacity (resistance)	2500VA			300W			2500VA			300W			
Coil parameter	Options	With LED											
	Coil voltage	6VAC	12VAC	24VAC	48VAC	110/120VAC	220VAC	6VDC	12VDC	24VDC	48VDC	110VDC	
	Coil resistance (ohm)	11.5	40	160	600	3750/3900	13000	40	160	630	2600	11000	
	Rated current (mA) 50Hz testing	215	106.9	62.4	33.3	12.6	6.5	150	75	36.9	18.5	10	
	Rated current (mA) 60Hz testing	190	98.2	52.2	27.8	10.8	5.4	150	75	36.9	18.5	10	
	Consumed power (W) 60Hz testing	1.2VA						0.9W					
	Voltage drop (for reted voltage)	Min. 30%						Min.10%					
	Min. operating voltage	Max.80% rated voltage						Max.75% rated voltage					
	Max. continuous operating voltage	110% rated voltage											
	Min.operating valtage	80% rated voltage											
Whole parameter	Operate time	Max.20hm											
	Release voltag	Max.20hm											
	Ambient temperature	-25~55 °C											
	Humidity	35~85% RH											
	Contact material	Ag alloy											
	Contact resistance	max. 50 mΩ											
	Electrical life	>100000 (1800ops/h)											
	Mechanical life	>1000000 (18000 ops/h)											
	Insulation resistance	>500zΩ (500VDC)											
	Dielectric strength	Between contact						1000VAC/1min					
		Between contact (different pole)						1000VAC/1min					
		Between contact and coil						2000VAC/1min					
	Vibration resistance	10~55Hz, 1mm											
	Shock resistance	100m/s2 (10g)											
Weigh	35g												
Certificate	CE CQC												



Options: SZR-LY4 SERIES PARAMETER

		SZR-LY4-S-N1 AC6V	SZR-LY4-S-N1 AC12V	SZR-LY4-S-N1 AC24V	SZR-LY4-S-N1 AC48V	SZR-LY4-S-N1AC110/120V	SZR-LY4-S-N1 AC220V	SZR-LY4-S-N1 DC6V	SZR-LY4-S-N1 DC12V	SZR-LY4-S-N1 DC24V	SZR-LY4-S-N1 DC48V	SZR-LY4-S-N1 DC110V		
		Contact parameter		Rated current						10A				
		Contact form						4PDT						
		Terminal						PCB/ plug-in terminal			PCB			
		Resistance load			250VAC, 10A			30VDC, 10A			250VAC, 10A		30VDC, 10A	
		Switching capacity (resistance)			2500VA			300W			2500VA		300W	
Coil parameter		Options												
		With LED												
		Coil voltage	6VAC	12VAC	24VAC	48VAC	110/120VAC	220VAC	6VDC	12VDC	24VDC	48VDC	110VDC	
		Coil resistance (ohm)	5	20	80	320	1680/2000	6700	24	96	360	1540	6800	
		Rated current (mA) 50Hz testing	386	199	93.6	47	25.5/27	13.1	250	125	62	31	13.6	
		Rated current (mA) 60Hz testing	330	170	80	40	21.8/22.6	11.2	250	125	62	31	13.6	
		Consumed power (W) 60Hz testing	2.5VA						1.5W					
		Voltage drop (for reted voltage)	Min. 30%						Min.10%					
		Min. operating voltage	Max.80% rated voltage						Max.75% rated voltage					
		Max. continuous operating voltage	110% rated voltage											
		Min.operating valtage	80% rated voltage											
Whole parameter		Operate time	Max.20hm											
		Release voltag	Max.20hm											
		Ambient temperature	-25~55 °C											
		Humidity	35~85% RH											
		Contact material	Ag alloy											
		Contact resistance	max. 50 mΩ											
		Electrical life	>100000 (1800ops/h)											
		Mechanical life	>1000000 (18000 ops/h)											
		Insulation resistance	>500zΩ (500VDC)											
		Dielectric strength	Between contact						1000VAC/1min					
			Between contact(different pole)						1000VAC/1min					
			Between contact and coil						2000VAC/1min					
		Vibration resistance	10~55Hz, Dual amplitude:1mm											
		Shock resistance	100m/s2 (about 10g)											
		Weigh	65g											
		Certificate	CE CQC											

Options: SZX SERIES PARAMETER

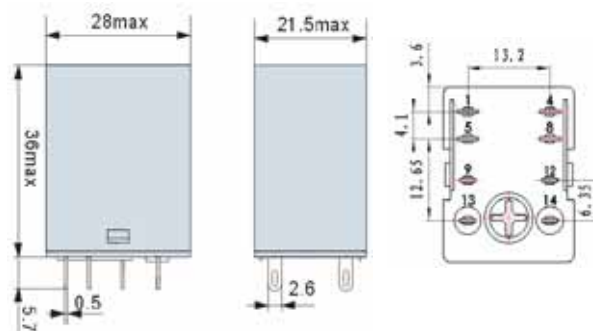
SZX-SMF-08SN		SZX-SMF-14SN	
			
SZX-SLF-08SE		SZX-SLF-14SE	
			
SZR-MY2 Matched socket	SZR-MY4 Matched socket	SZR-LY2 Matched socket	SZR-LY4 Matched socket
SZX-SMF-08SN	SZX-SMF-14SN	SZX-SLF-08SE	SZX-SLF-14SE

Options: SZX CLIP SERIES

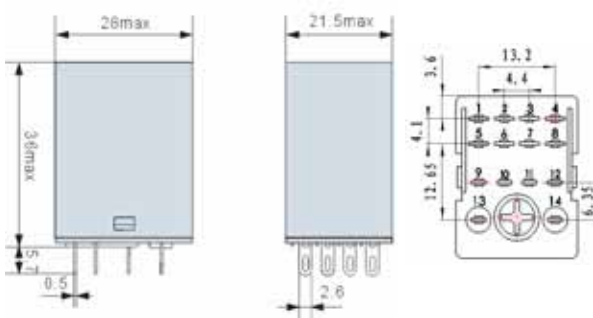
SZX-SMF-CM	SZX-SLF-CL
	
Matched socket SZX-SMF-08SN SZX-SMF-14SN	Matched socket SZX-SLF-08SE SZX-SLF-14SE

Dimension. Bottom view: SZR, SZX SERIES PARAMETER

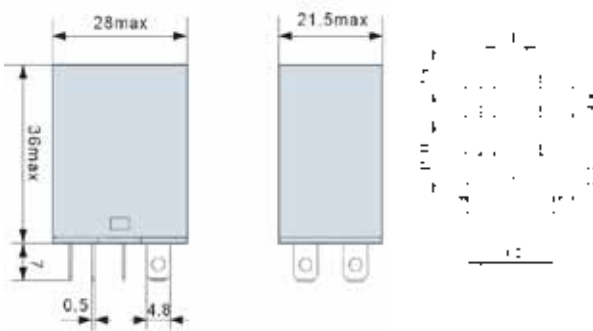
SZR-MY2 Outline & Bottom view



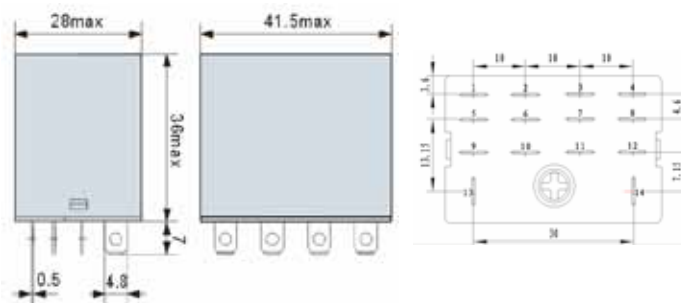
SZR-MY4 Outline & Bottom view



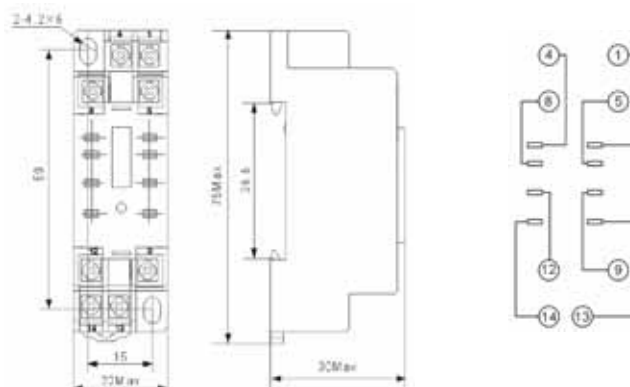
SZR-LY2 Outline & Bottom view



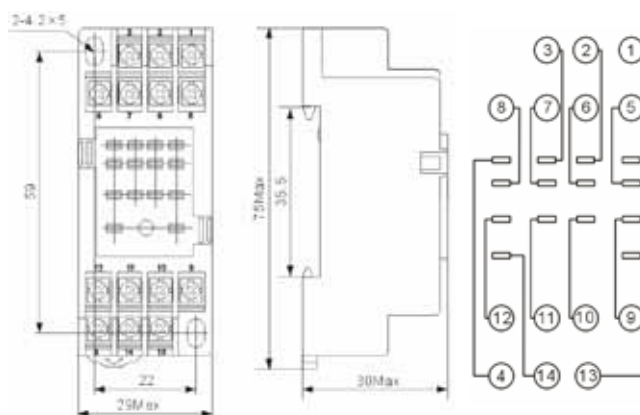
SZR-LY4 Outline & Bottom view



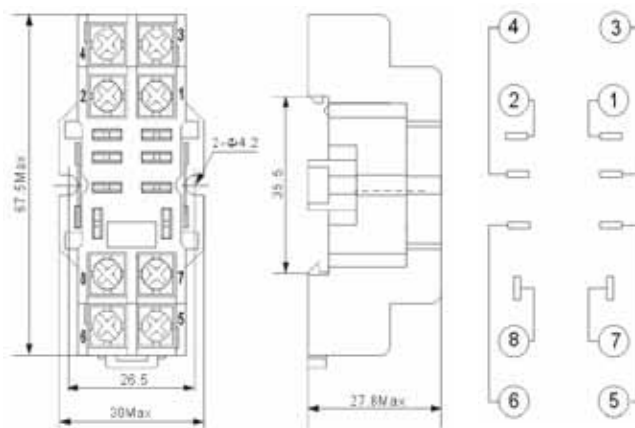
SZX-SMF-08SN outline & install dimension circute diagram



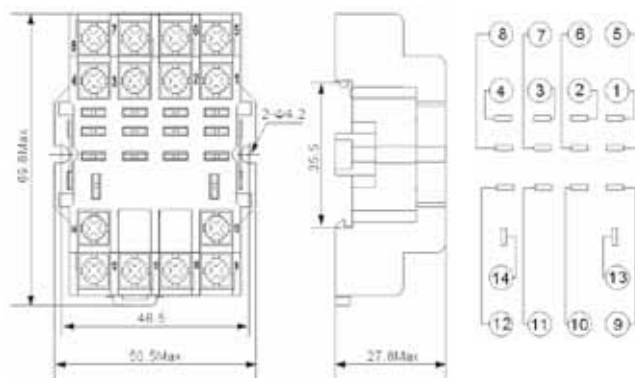
SZX-SMF-14SN outline & install dimension circute diagram



SZX-SLF-08SE outline & install dimension circute diagram



SZX-SLF-14SE outline & install dimension circute diagram



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