Power Relay

Honeywell

SZR-LY Series

FEATURES

- Small package design
- ARC barrier equipped
- Silver Cadium Oxide contact
- High dielectric strength (1,800 Vac)
- High reliability and long life
- Ultra-high sensitivity with quick response time (25 ms max.)
- High vibration and shock resistance
- Options include LED indicator, diode protection, and LED indicator/diode protection
- UL listed, CE certified, CSA certified

TYPICAL APPLICATIONS

- Control panels
- Elevator panels
- Machine tools
- Test equipment

WARNING

PERSONAL INJURY DO NOT USE these

products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.



SZR-LY Series general-purpose power relays are designed for a wide range of applications including power as well as logic control for factory machines and control panels.

SZR-LY Series relays break 10 A loads and are ideal for control panels that require stable and reliable relays.

One standard and three options are available: LED indicator, internal surge protection diode, and LED indicator/diode protection. Honeywell's global sales and distribution channels ensure a rapid response and excellent customer service.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

General Purpose Power Relays

SZR-LY Series

RELAY MODEL SELECTION GUIDE

Туре	Terminal	Contact	Catalog Listing
Standard	Plug-in/Solder	DPDT	SZR-LY2-1
Standard	Flug-III/Solder	4PDT	SZR-LY4-1
	РСВ	DPDT	SZR-LY2-1P
	FCD	4PDT	SZR-LY4-1P
LED Indicator	Plug-in/Solder	DPDT	SZR-LY2-N1
		4PDT	SZR-LY4-N1
DIODE surge suppression		DPDT	SZR-LY2-D1
		4PDT	SZR-LY4-D1
LED indicator + surge suppression	7	DPDT	SZR-LY2-X1
		4PDT	SZR-LY4-X1

SOCKETS - REQUIRED ACCESSORIES

	Din-rail Mounting	Solder Terminal	PCB Terminal
Relay Contact			
DPDT For use with SZR-LY2-1, - N1, -D1, -X1	Con contraction		
	SZX-SLF-08N	SZX-SLB-08	SZX-SLB-08P
4PDT For use with SZR-LY4-1, - N1, -D1, -X1	SZX-SLF-14	SZX-SLB-14	SZX-SLB-14P

CONTACT RATINGS

Load	Resistive Load	Inductive load					
Ratings	(p.f. = 1)	(p.f. = 0.4, L/R = 7 ms)					
Rated load	110 Vac, 10 A	110 Vac, 7.5 A					
	24 Vdc, 10 A	24 Vdc, 5 A					
Carry current		10 A					
Max. operating voltage	2	250 Vac, 125 Vdc					
Max. operating current		10 A					
Max. switching capacity	1,100 VA, 240 W	825 VA, 120 W					
Min. permissible load		5 Vdc, 100 mA					

Power Relays

SZR-LY Series

COIL RATINGS (DPDT)

		Rated Current (mA)			Coil Inductance (H)					
	Rated Voltage (V)	50 Hz	60 Hz	Coil resistance (Ω)	Armature OFF	Armature ON	Pick-up Voltage (V)	Dropout Voltage (V)	Maximum Voltage (V)	Power Consumption (W)
	6	214.1	183	12.2	0.04	0.08				Approx.
	12	106.5	91	46	0.17	0.33				1.0 W to 1.2 W
	24	53.8	46	180	0.69	1.3	Max.	Min.		(60 Hz)
AC	50	25.7	22	788	3.22	5.66	80 %	30%	110%	
	100/110	11.7/12.9	10/11	3,750	14.54	24.6				Approx
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1				0.9 W to 1.1 W
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07				(60 Hz)
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4				
	6	150)	40	0.17	0.33				
	12	75		160	0.73	1.37	Max.	Min.		Approx.
DC	24	36.	9	650	3.2	5.72	80%	10%	110%	0.9 W
	48	18.	5	2,600	10.6	21.0				
	100/110	9.1/	10	11,000	45.6	86.2	1			

COIL RATINGS (4PDT)

		Rated Current (mA)			Coil Inductance (H)					
	Rated Voltage (V)	50 Hz	60 Hz	Coil resistance (Ω)	Armature OFF	Armature ON	Pick-up Voltage (V)	Dropout Voltage (V)	Maximum Voltage (V)	Power Consumption (W)
	6	386	330	5	0.02	0.04				
	12	199	170	20	0.1	0.17				Approx.
	24	93.6	80	78	0.38	0.67	Max.	Min.		1.95 W to 2.5 W
AC	50	46.8	40	350	1.74	2.88	80 %	30%	110%	(60 Hz)
	100/110	22.5/25.5	19/21.8	1,800	10.5	17.3				
	200/220	11.5/13.1	9.8/11.2	6,700	33.1	57.9				
	6	240		25	0.09	0.21				
	12	120		100	0.39	0.84	Max.	Min.		Approx.
DC	24	69		350	1.41	2.91	80%	10%	110%	1.5 W
	48	30		1,600	6.39	13.6				
	100/110	15/15.9		6,900	32	63.7				

Note 1: The rated current and coil resistance are measured at a coil temperature of 23 °C [73.4 °F] with tolerances of +15%, -20% for AC rated current and ± 15% for DC coil resistance.

Note 2: The rated current of N1 and X1 types is 4 mA higher than the value in the table above.

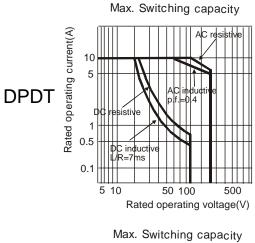
Power Relays

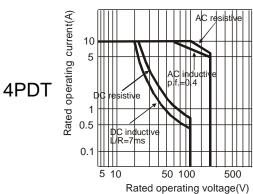
SPECIFICATIONS

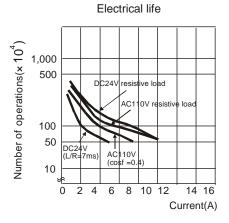
SPECIFICATION	13					
Contact material		Silver Cadium Oxide				
Contact resistance		Max. 50 MOhm				
Operate time		Max. 25 ms				
Release time		Max. 25 ms				
Operating	Mechanical	18,000 operations per hour				
frequency	Electrical	1,800 operations per hour				
Insulation resistant	ce	Min. 100 Mw at 500 Vdc				
Dielectric withstan	d voltage	1,800 Vac 50 Hz/60 Hz for one minute between non-continuous current				
		carrying terminals and between coil thermals and contact terminals				
		1,000 Vac 50/60 Hz for 1 minute between contacts of same polarity				
Vibration Mechanical durabili		10 Hz to 55 Hz at double amplitude of 1.0 mm				
resistance	Malfunction durability	10 Hz to 55 Hz at double amplitude of 1.0 mm				
Shock resistance	Mechanical durability	1,000 m/s ² (approx. 100 g)				
	Malfunction durability	200 m/s ² (approx. 20 g)				
Service life	Mechanical	AC: Min. 50 million operations (at operating frequency of 18,000 operations/hour)				
		DC: Min. 100 million operations (at operating frequency of 18,000 operations/hour)				
	Electrical	DPDT: Min. 500,000 operations (at operating frequency of 1,800 operations				
		4PDT: Min. 200,000 operations (at operating frequency of 1,800 operations/hour)				
Weight		DPDT: Approximately 35 g 4PDT: Approximately 65 g				

Note 1: The data shown above are of initial value

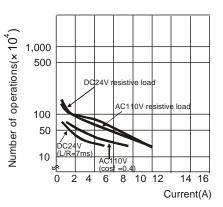
CHARACTERISTIC DATA







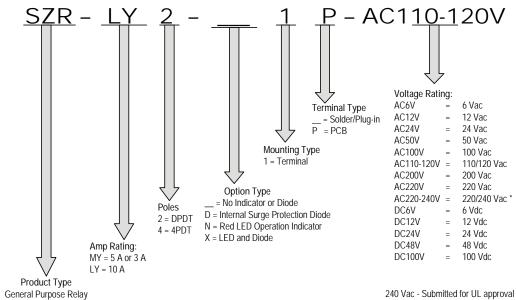
Electrical life



Power Relays

SZR-LY Series





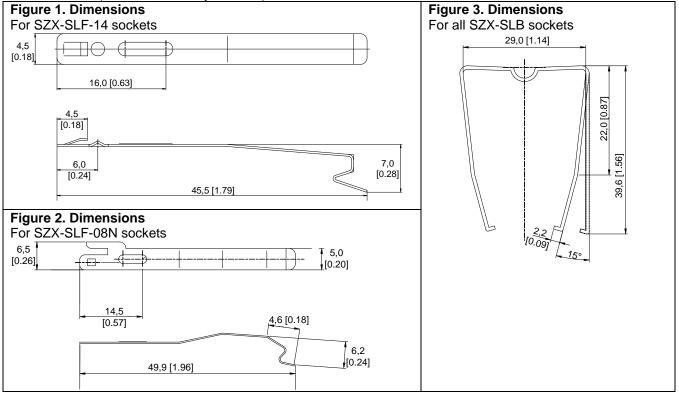
Power Relays

SZR-LY Series

HOLDING CLIPS

- Holding clips are included with the sockets
- Holding clips for the SLF-08N cannot be removed once inserted
- The holding clip for the SLF-14 can be removed by pushing the side of the inserting hold with a sharp object
- Holding clips for all SMB sockets are wire for easy removal
- Holding clips are to be inserted into the slots provided on the socket

DIMENSIONS (For reference only - mm/in)



Power Relays

SZR-LY Series

Max. 28,0 [1.10]

FIGURE 4. DIMENSION, CIRCUIT DIAGRAM, TERMINAL ARRANGEMENT, AND MOUNTING HOLE FOR SZR-LY2-1, SZR-LY2-N1, SZR-LY2-D1, and SZR-LY2-X1

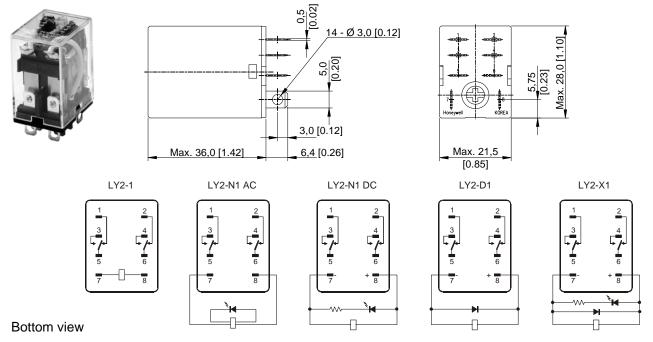
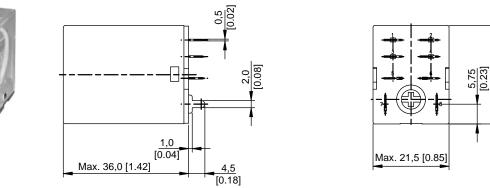


FIGURE 5. DIMENSION, CIRCUIT DIAGRAM, TERMINAL ARRANGEMENT, AND MOUNTING HOLE FOR SZR-MY2-1P and SZR-MY4-1P



The circuit diagram is the same wit standard type of SZR-MY2-1 or the SZR-MY4-1

Power Relays

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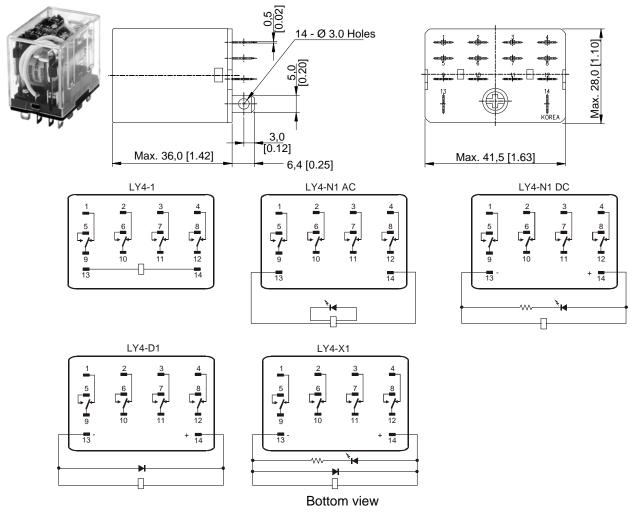
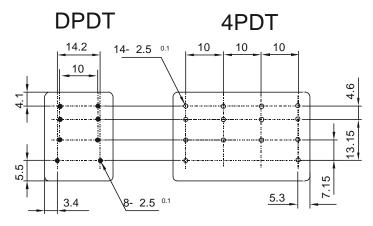


FIGURE 6. DIMENSION, CIRCUIT DIAGRAM, TERMINAL ARRANGEMENT, AND MOUNTING HOLE FOR SZR-LY4-1, SZR-LY4-N1, SZR-LY4-D1, and SZR-LY4-X1

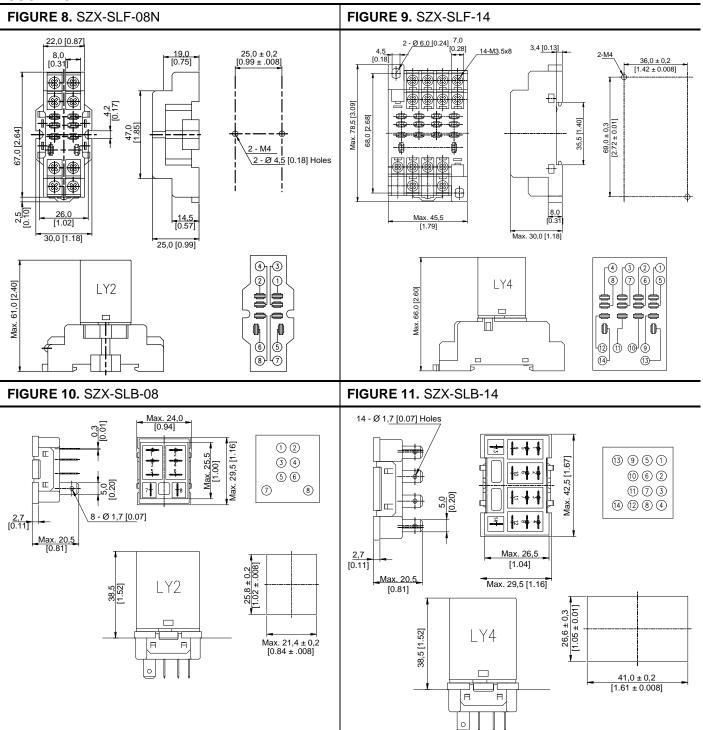
FIGURE 7. CIRCUIT DRAWING FOR SZR-LY2- and SZR-LY4-



Power Relays

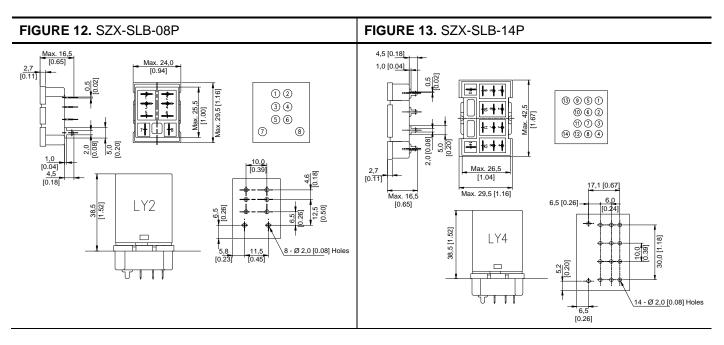
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SOCKETS



Power Relays

SZR-LY Series



WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the 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.

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For application assistance, current specifications, or name of the nearest Authorized Distributor, contact a nearby sales office. Or call:

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