

General Purpose

Power Relay

SZR-LY Series

FEATURES

- Small package design
- ARC barrier equipped
- Silver Cadmium 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



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

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.

⚠ 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.

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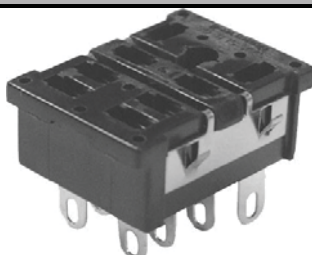


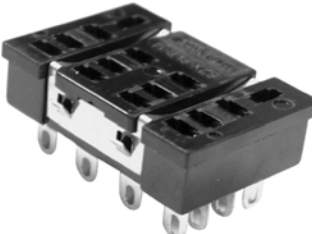

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RELAY MODEL SELECTION GUIDE

| Type | Terminal | Contact | Catalog Listing |
|-----------------------------------|----------------|---------|-------------------|
| Standard | Plug-in/Solder | DPDT | SZR-LY2-1 |
| | | 4PDT | SZR-LY4-1 |
| | PCB | DPDT | SZR-LY2-1P |
| | | 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 | | DPDT | SZR-LY2-X1 |
| | | 4PDT | SZR-LY4-X1 |

SOCKETS – REQUIRED ACCESSORIES

| Relay Contact | Din-rail Mounting | Solder Terminal | PCB Terminal |
|---|--|---|---|
| DPDT For use with SZR-LY2-1, - N1, -D1, -X1 |  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

| Ratings | Load | Resistive Load (p.f. = 1) | Inductive load (p.f. = 0.4, L/R = 7 ms) |
|-------------------------|------|-------------------------------|--|
| Rated load | | 110 Vac, 10 A 24 Vdc, 10 A | 110 Vac, 7.5 A 24 Vdc, 5 A |
| Carry current | | 10 A | |
| Max. operating voltage | | 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 | |

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COIL RATINGS (DPDT)

| | Rated Voltage (V) | 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. 80 % | Min. 30% | 110% | Approx. 1.0 W to 1.2 W (60 Hz) |
| | 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 | | | | Approx. 0.9 W to 1.1 W (60 Hz) |
| | 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 | | | | | |
| DC | 6 | 150 | | 40 | 0.17 | 0.33 | Max. 80% | Min. 10% | 110% | Approx. 0.9 W |
| | 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 | | | | |

COIL RATINGS (4PDT)

| | Rated Voltage (V) | 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 | 386 | 330 | 5 | 0.02 | 0.04 | Max. 80 % | Min. 30% | 110% | Approx. 1.95 W to 2.5 W (60 Hz) |
| | 12 | 199 | 170 | 20 | 0.1 | 0.17 | | | | |
| | 24 | 93.6 | 80 | 78 | 0.38 | 0.67 | | | | |
| | 50 | 46.8 | 40 | 350 | 1.74 | 2.88 | | | | |
| | 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 | | | | |
| DC | 6 | 240 | | 25 | 0.09 | 0.21 | Max. 80% | Min. 10% | 110% | Approx. 1.5 W |
| | 12 | 120 | | 100 | 0.39 | 0.84 | | | | |
| | 24 | 69 | | 350 | 1.41 | 2.91 | | | | |
| | 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.

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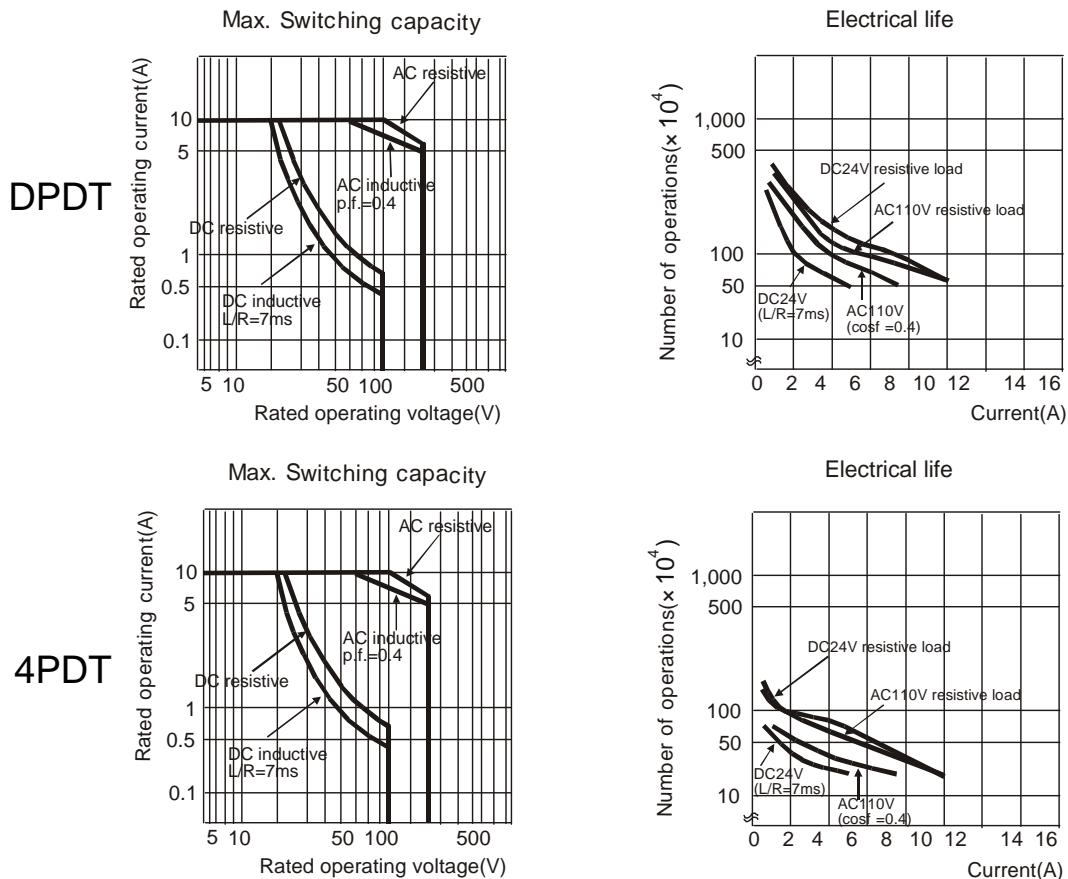
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SPECIFICATIONS

| | | |
|------------------------------|------------------------|--|
| Contact material | | Silver Cadium Oxide |
| Contact resistance | | Max. 50 MOhm |
| Operate time | | Max. 25 ms |
| Release time | | Max. 25 ms |
| Operating frequency | Mechanical | 18,000 operations per hour |
| | Electrical | 1,800 operations per hour |
| Insulation resistance | | Min. 100 Mw at 500 Vdc |
| Dielectric withstand voltage | | 1,800 Vac 50 Hz/60 Hz for one minute between non-continuous current carrying terminals and between coil terminals and contact terminals 1,000 Vac 50/60 Hz for 1 minute between contacts of same polarity |
| Vibration resistance | Mechanical durability | 10 Hz to 55 Hz at double amplitude of 1.0 mm |
| | 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/hour) 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

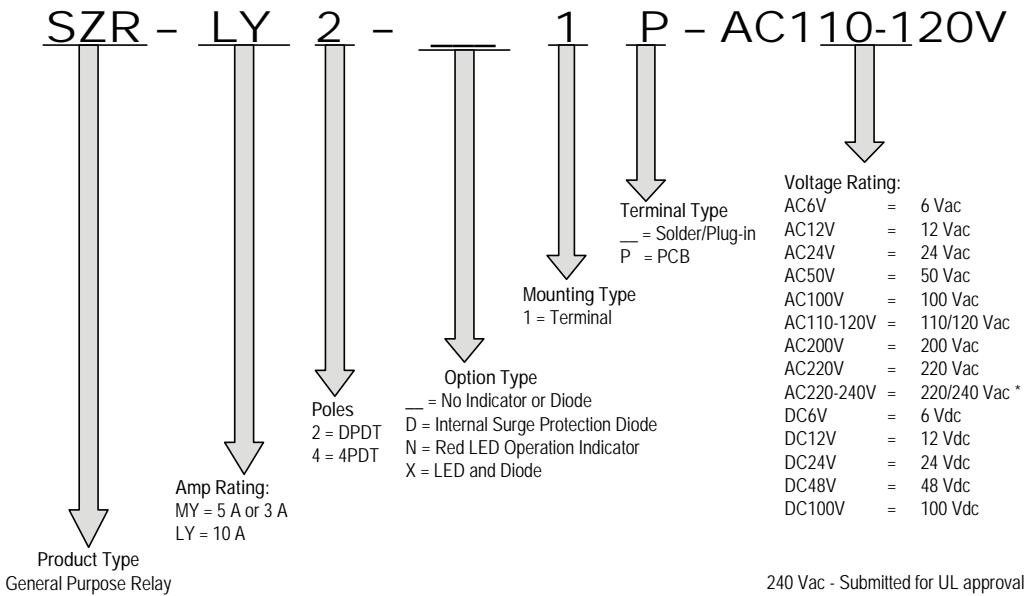


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CATALOG LISTING MATRIX



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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)

Figure 1. Dimensions

For SZX-SLF-14 sockets

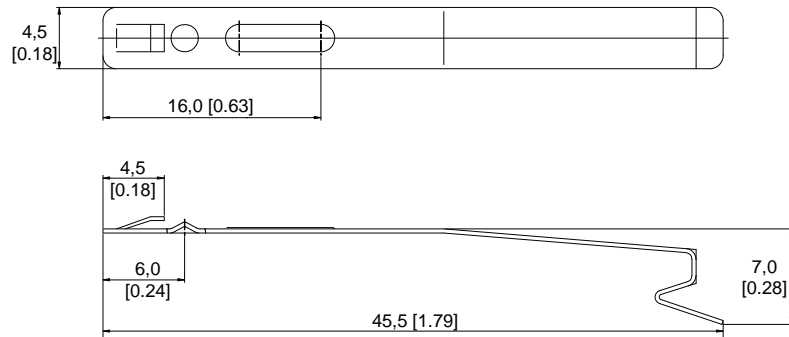


Figure 2. Dimensions

For SZX-SLF-08N sockets

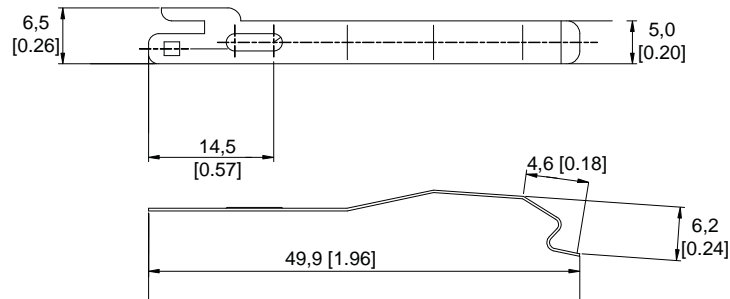
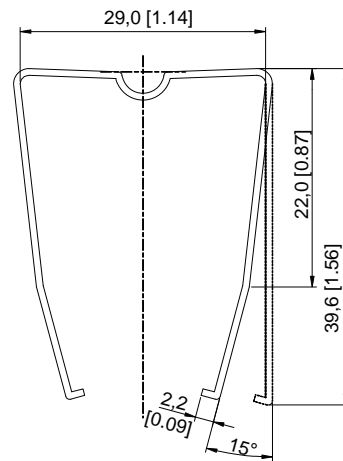


Figure 3. Dimensions

For all SZX-SLB sockets

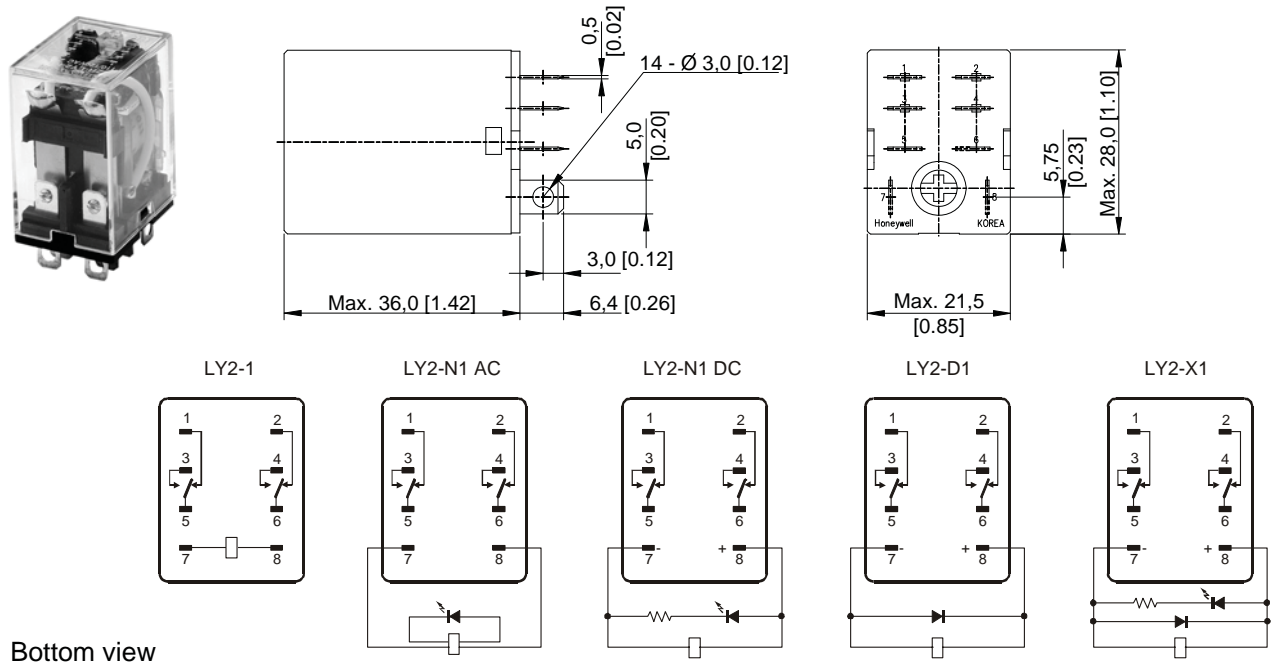


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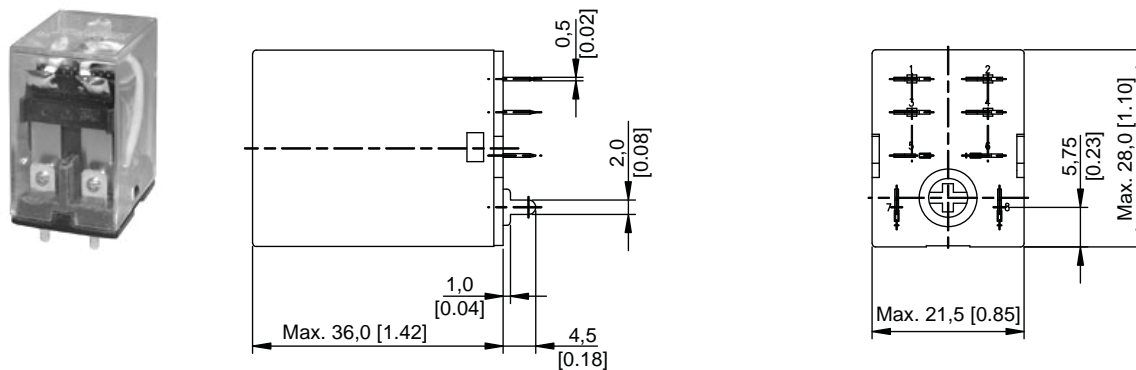
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FIGURE 4. DIMENSION, CIRCUIT DIAGRAM, TERMINAL ARRANGEMENT, AND MOUNTING HOLE FOR SZR-LY2-1, SZR-LY2-N1, SZR-LY2-D1, and SZR-LY2-X1



Bottom view

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



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

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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

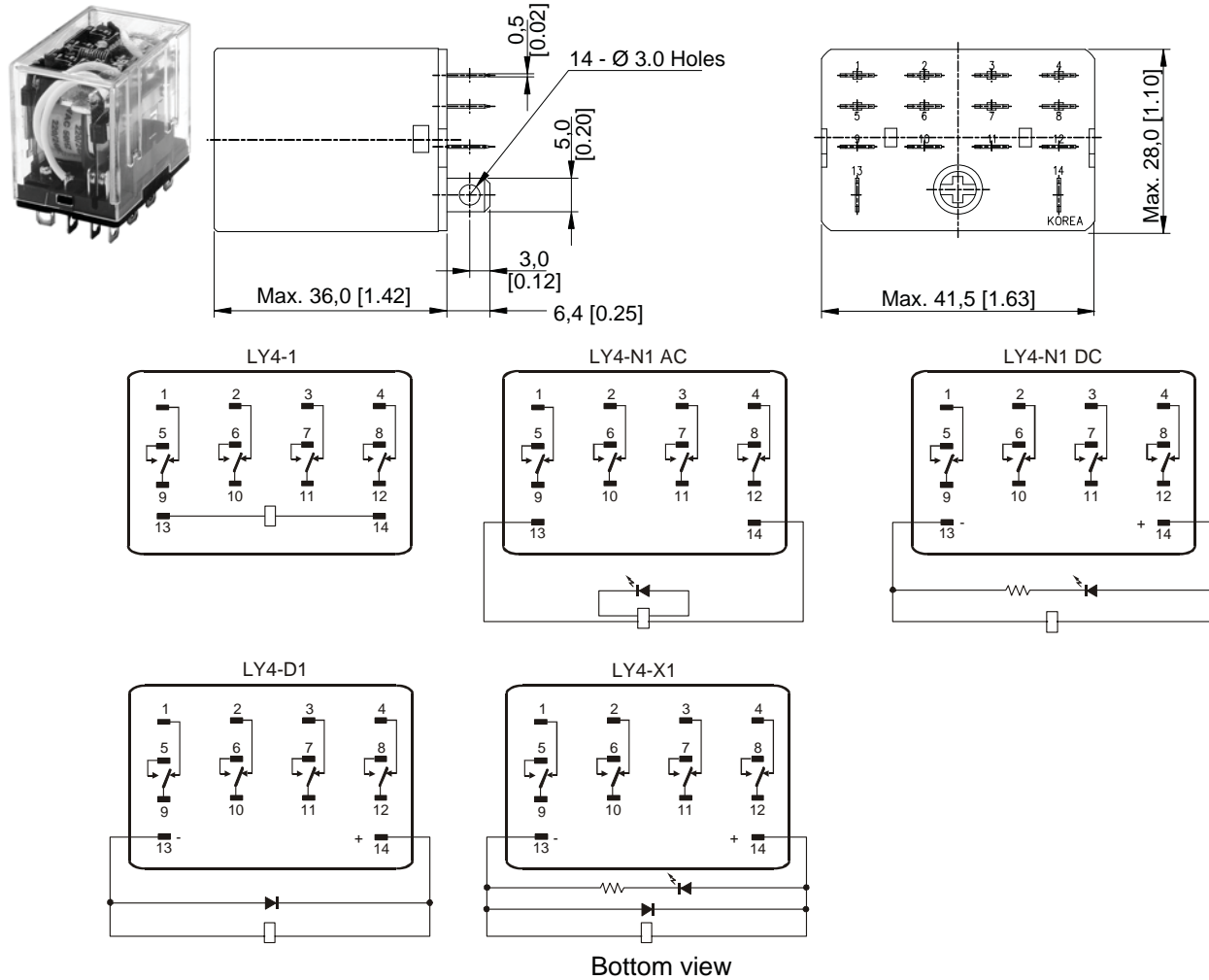
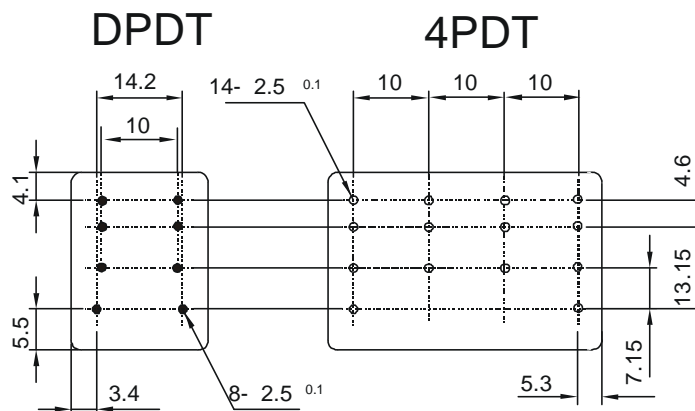


FIGURE 7. CIRCUIT DRAWING FOR SZR-LY2- and SZR-LY4-



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SOCKETS

FIGURE 8. SZX-SLF-08N

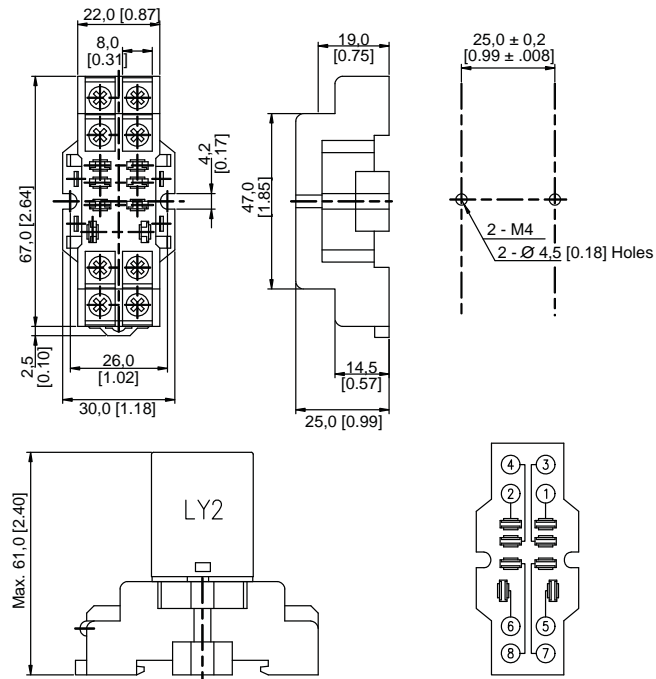


FIGURE 9. SZX-SLF-14

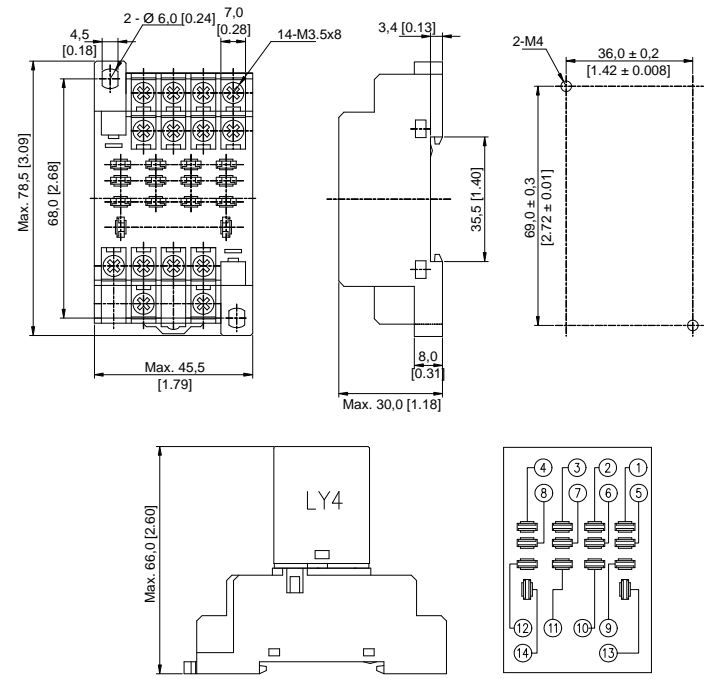


FIGURE 10. SZX-SLB-08

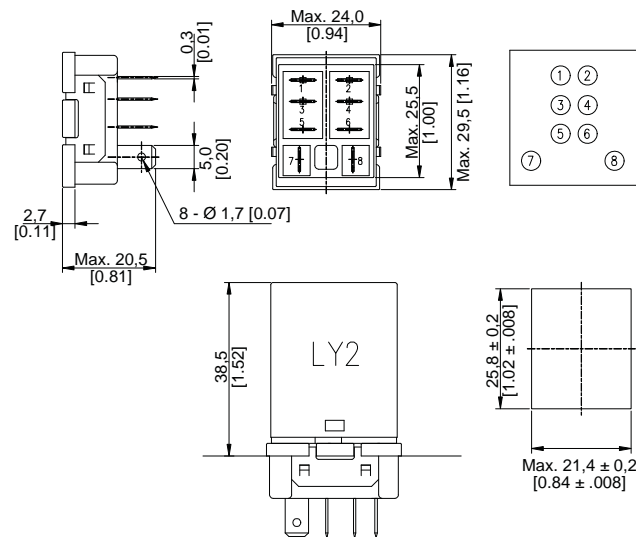
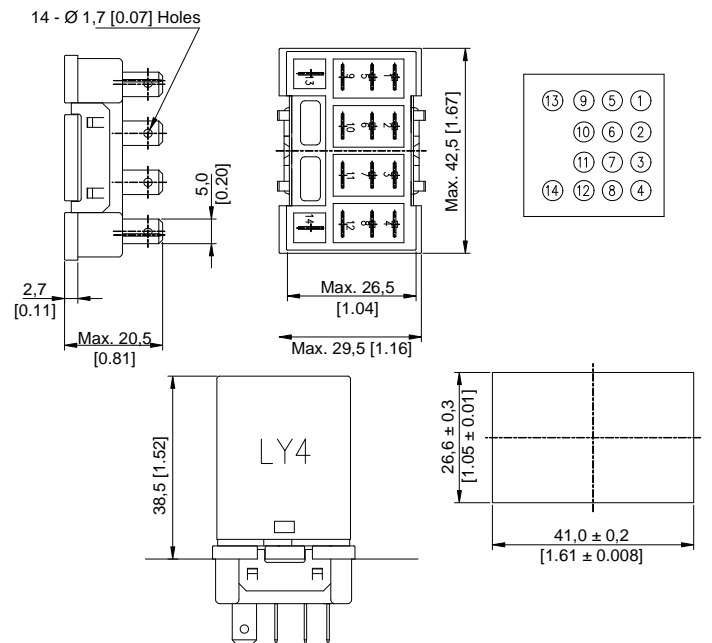


FIGURE 11. SZX-SLB-14



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FIGURE 12. SZX-SLB-08P

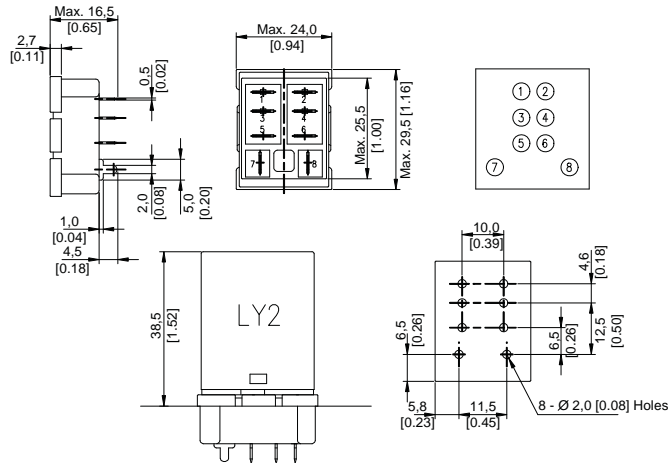
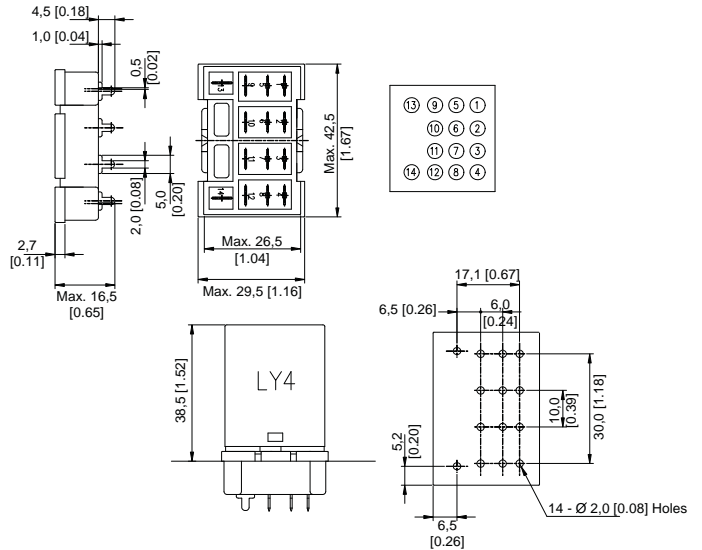


FIGURE 13. SZX-SLB-14P



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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
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