

General Purpose Power Relays

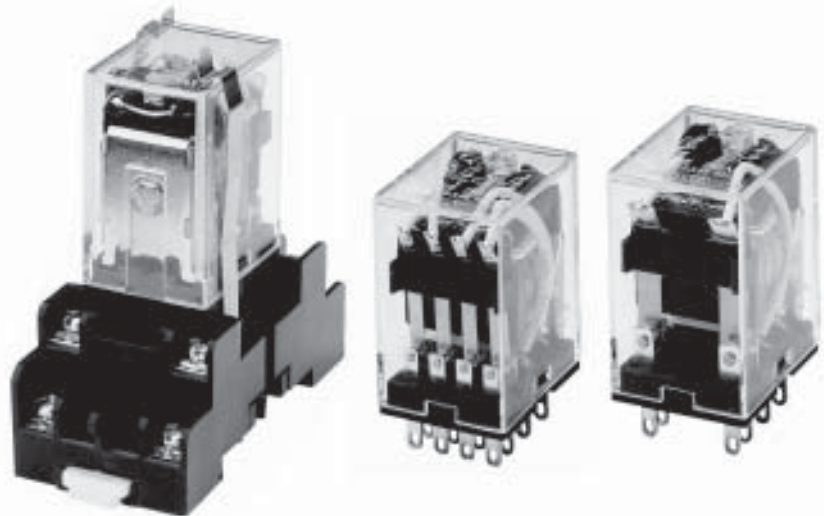
SZR-MY Series

FEATURES

- Small package design
- DPDT has a fine silver contact with 5 A capability
- 4PDT has a gold-plated silver contact with 3 A capability
- High dielectric strength (1,800 Vac)
- High reliability and long life
- Ultra-high sensitivity with quick response time (20 ms max.)
- High vibration and shock resistance
- Options include LED indicator, diode protection, and LED indicator/diode protection
- UL recognized, CE certified, submitted for CSA approval

TYPICAL APPLICATIONS

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



DESCRIPTION

SZR-MY 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-MY Series relays have a small package design for multiple application needs. Relays are available in two configurations: DPDT with a 5 A load and 4PDT with 3 A load.

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 support.

⚠ WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet for reference only.

Do not use this document as product installation information.

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

⚠ WARNING

- 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.

General Purpose

Power Relays

SZR-MY Series

SELECTION GUIDE • MY2 PRODUCT FAMILY


		SZR-MY2-1-AC110-120V	SZR-MY2-1-AC220V	SZR-MY2-1-DC12V	SZR-MY2-1-DC24V	SZR-MY2-1P-AC110-120V	SZR-MY2-1P-AC220-240V	SZR-MY2-1P-DC24V	SZR-MY2-N1-AC110-120V	SZR-MY2-N1-AC220V	SZR-MY2-N1-DC12V	SZR-MY2-N1-DC24V	SZR-MY2-D1-DC24V	SZR-MY2-X1-DC24V	
				5 A											
		DPDT													
Contact Specifications	Terminal Type	Solder/Plug-In				PCB Type			Solder/Plug-In						
	Resistive Load	220 V, 5 A		24 V, 5 A		220 V, 5 A		24 V, 5 A	220 V, 5 A		24 V, 5 A				
	Inductive Load	220 V, 2 A		24 V, 2 A		220 V, 2 A		24 V, 2 A	220 V, 2 A		24 V, 2 A				
	Max. Switching (Res. Load)	1,100 VA		120 W		1,100 VA		120 W	1,100 VA		120 W				
	Max. Switching (Ind. Load)	440 VA		48 W		440 VA		48 W	440 VA		48 W				
	Max. Contact Rating	250 Vac		125 Vdc		250 Vdc		125 Vdc	250 Vac		125 Vdc				
	Options	Standard – No Indicator or Diode							LED Indicator				Diode Protection	LED Indicator/Diode Protection	
	Coil Input Voltage	110/120 Vac	220 Vac	12 Vdc	24 Vdc	110/120 Vac	220/240 Vac	24 Vdc	110/120 Vac	220 Vac	12 Vdc	24 Vdc			
Coil Specifications	Rated Current (mA) at 50 Hz	9.9/10.8	6.2/6.8	75	36.9	9.9/10.8	4.8/5.3	36.9	9.9/10.8	6.2/6.8	75	36.9			
	Rated Current (mA) at 60 Hz	8.4/9.2	5.3/5.8	75	36.9	8.4/9.2	4.2/4.6	36.9	8.4/9.2	5.3/5.8	75	36.9			
	Coil Resistance (Ω)	4,430	12,950	160	650	4,430	18,790	650	4,430	12,950	160	650			
	Power Consumption (W) at 60 Hz	0.9 W to 1.1 W		0.9 W		0.9 W to 1.1 W		0.9 W	0.9 W to 1.1 W		0.9 W				
	Dropout Voltage (V) (% of rated voltage)	Min. 30%		Min. 10%		Min. 30%		Min. 10%	Min. 30%		Min. 10%				
	Pick-Up Voltage (V) (Must operate voltage)	Max. 80% of the rated coil voltage													
	Max. Voltage (V) (Max. continuous voltage)	110% of the rated coil voltage													
	Min. Operating Voltage (V)	80% of the rated coil voltage													
General Specifications	Operate Time	20 ms max.													
	Release Time	20 ms max.													
	Ambient Temperature	-25 °C to 75 °C [-13 °F to 167 °F]													
	Ambient Humidity	45% RH to 85% RH													
	Contact Material	Fine Silver													
	Contact Resistance	50 mΩ max.													
	Operating Frequency	18,000 operations/hour (Mechanical); 1,800 operations/hour (Electrical)													
	Vibration Resistance	10 Hz to 55 Hz at double amplitude of 1,0 mm													
	Shock Resistance	1,000 m/s ² (approx. 100 g)													
	Weight	35 g [1.24 oz.]													
Agency Approvals and Standards	UL Recognized (#E150950), CE Certified (9667186-9811), submitted for CSA Approval														

General Purpose

Power Relays

SZR-MY Series

SELECTION GUIDE • MY4 PRODUCT FAMILY

		SZR-MY4-1-AC110-120V	SZR-MY4-1-AC220V	SZR-MY4-1-DC12V	SZR-MY4-1-DC24V	SZR-MY4-1P-AC110-120V	SZR-MY4-1P-AC220-240V*	SZR-MY4-1P-DC24V	SZR-MY4-N1-AC110-120V	SZR-MY4-N1-AC220V	SZR-MY4-N1-DC24V	SZR-MY4-N1-DC12V	SZR-MY4-D1-DC24V	SZR-MY4-X1-DC24V
				3 A										
		4PDT												
Contact Specifications	Terminal Type	Solder/Plug-In				PCB Type				Solder/Plug-In				
	Resistive Load	220 V, 3 A		24 V, 3 A		220 V, 3 A		24 V, 3 A		220 V, 3 A		24 V, 3 A		
	Inductive Load	220 V, 1.5 A		24 V, 0.8 A		220 V, 0.8 A		24 V, 1.5 A		220 V, 1.5 A		24 V, 0.8 A		
	Max. Switching (Res. Load)	660 VA		72 W		660 VA		72 W		660 VA		72 W		
	Max. Switching (Ind. Load)	176 VA		36 W		176 VA		36 W		176 VA		72 W		
	Max. Contact Rating	250 Vac		125 Vdc		250 Vac		125 Vdc		250 Vac		125 Vdc		
	Options	Standard – No Indicator or Diode							LED Indicator				Diode Protection	LED Indicator/Diode Protection
	Coil Input Voltage	110/120 Vac	220 Vac	12 Vdc	24 Vdc	110/120 Vac	220/240 Vac	24 Vdc	110/120 Vac	220 Vac	12 Vdc	24 Vdc		
Coil Specifications	Rated Current (mA) at 50 Hz	9.9/10.8	6.2/6.8	75	36.9	9.9/10.8	4.8/5.3	36.9	9.9/10.8	6.2/6.8	75	36.9		
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	Coil Resistance (Ω)	4,430	12,950	160	650	4,430	18,790	650	4,430	12,950	160	650		
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	Min. Operating Voltage (V)	80% of the rated coil voltage												
	Operate Time	20 ms max.												
	Release Time	20 ms max.												
General Specifications	Ambient Temperature	-25 °C to 75 °C [-13 °F to 167 °F]												
	Ambient Humidity	45% RH to 85% RH												
	Contact Material	Gold-plated Silver												
	Contact Resistance	50 mΩ max.												
	Operating Frequency	18,000 operations/hour (Mechanical); 1,800 operations/hour (Electrical)												
	Vibration Resistance	10 Hz to 55 Hz at double amplitude of 1.0 mm												
	Shock Resistance	1,000 m/s ² (approx. 100 g)												
	Weight	35 g [1.24 oz.]												
	Agency Approvals and Standards	UL Recognized (#E150950), CE Certified (9667186-9811), submitted for CSA Approval												





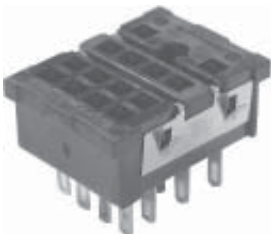

* Submitted for UL Approval

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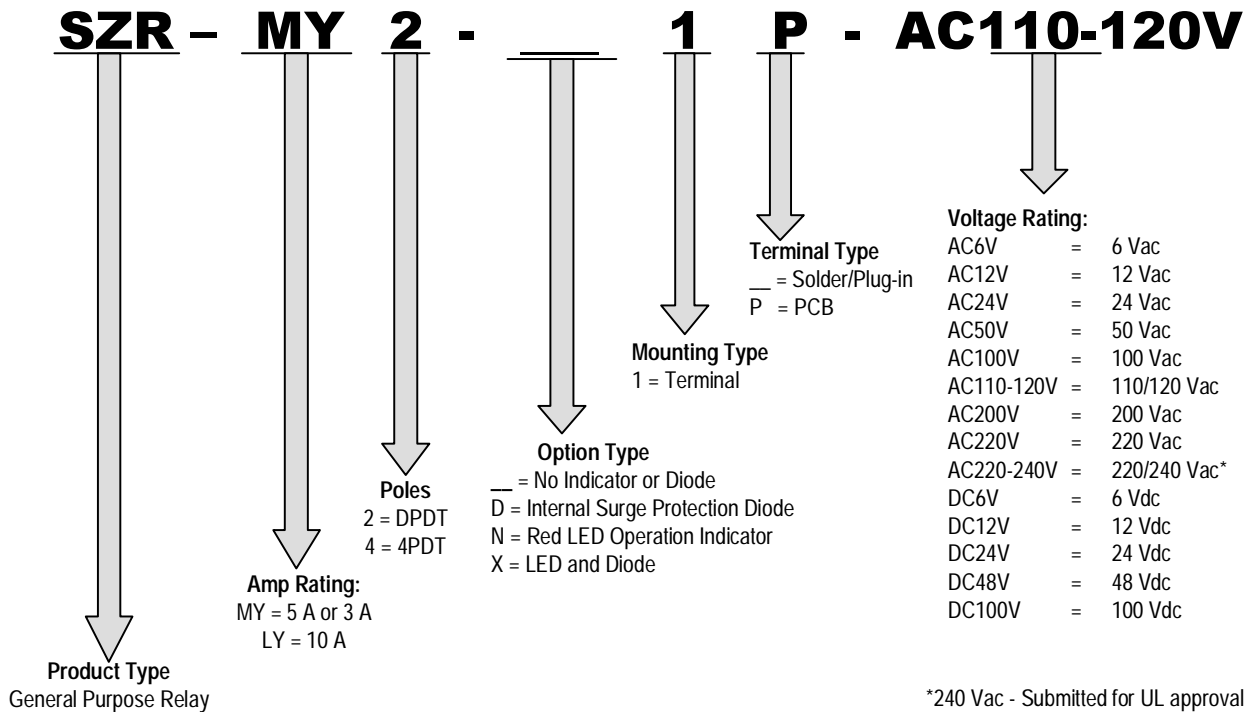
Power Relays

SZR-MY Series

SOCKETS – REQUIRED ACCESSORIES

Relay Contact	Din-rail Mounting	Solder Terminal	PCB Terminal
DPDT For use with SZR-MY2-1, -N1, -D1, -X1	 SZX-SMF-08N	 SZX-SMB-08	 SZX-SMB-08P
4PDT For use with SZR-MY4-1, -N1, -D1, -X1	 SZX-SMF-14N	 SZX-SMB-14	 SZX-SMB-14P

CATALOG LISTING MATRIX



General Purpose

Power Relays

SZR-MY Series

HOLDING CLIPS

- Holding clips are included with the sockets.
- Holding clips for the SMF-08N and SMF-14N cannot be removed once inserted.
- Holding clips for all SMB sockets are wire for easy removal.

DIMENSIONS (For reference only - mm/in)

Figure 1. Dimensions

For
SZX-SMF-08N
and
SZX-SMF-14N
sockets

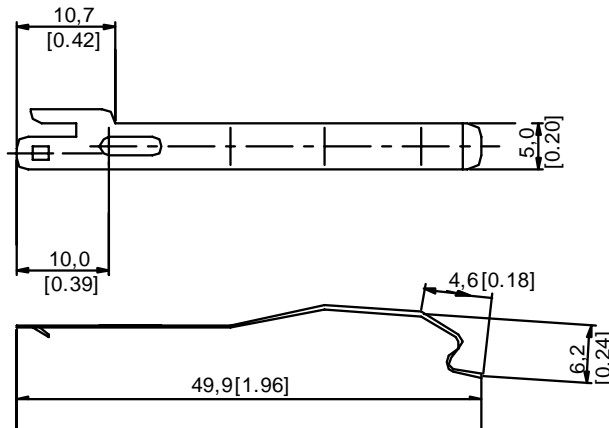
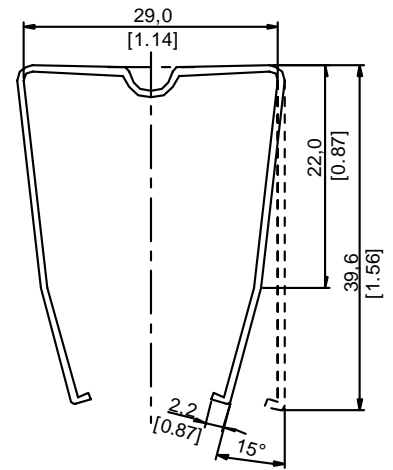
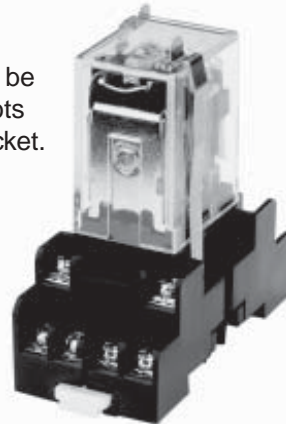


Figure 2. Dimensions
For all SZX-SMB sockets



Holding clips are to be inserted into the slots provided on the socket.



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MOUNTING DIMENSIONS (For reference only - mm/im)

Figure 4. SZR-MY2 Dimensions

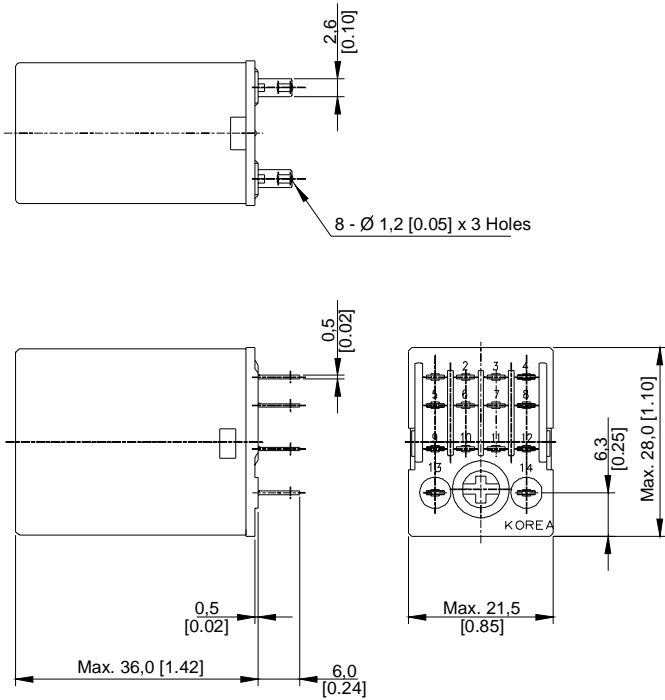


Figure 5. SZR-MY4 Dimensions

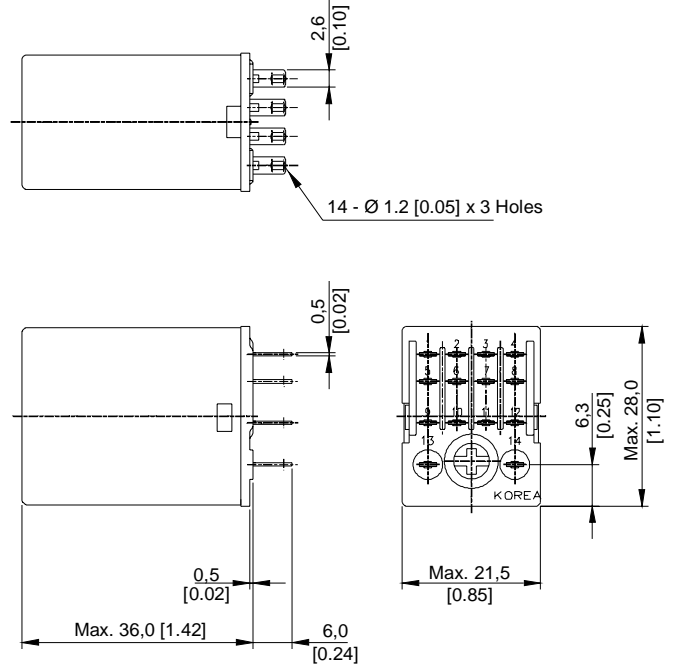


Figure 6. SZR-MY2-1P Dimensions

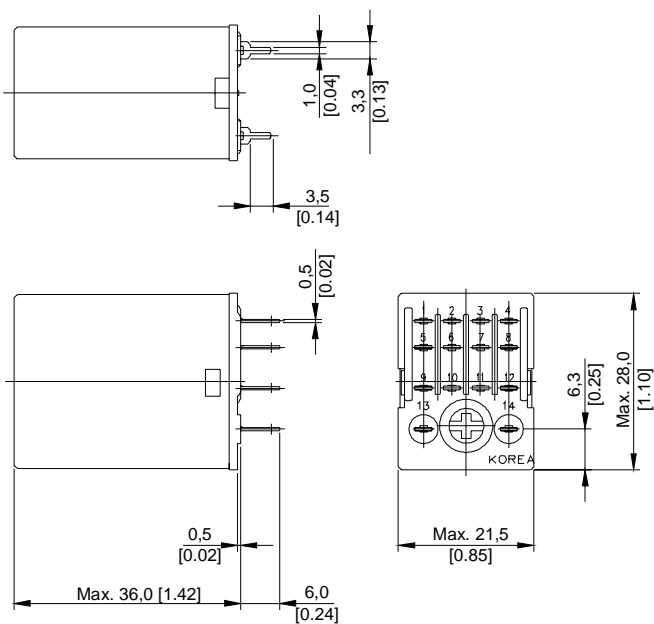
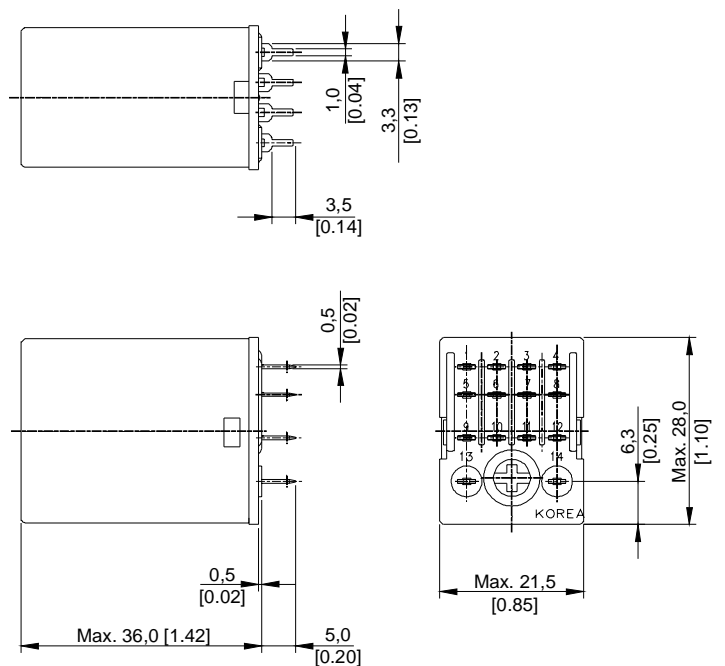


Figure 7. SZR-MY4-1P Dimensions



General Purpose

Power Relays

SZR-MY Series

SOCKETS – REQUIRED ACCESSORIES (For reference only - mm/im)

Figure 8. SZX-SMF-08N Dimensions

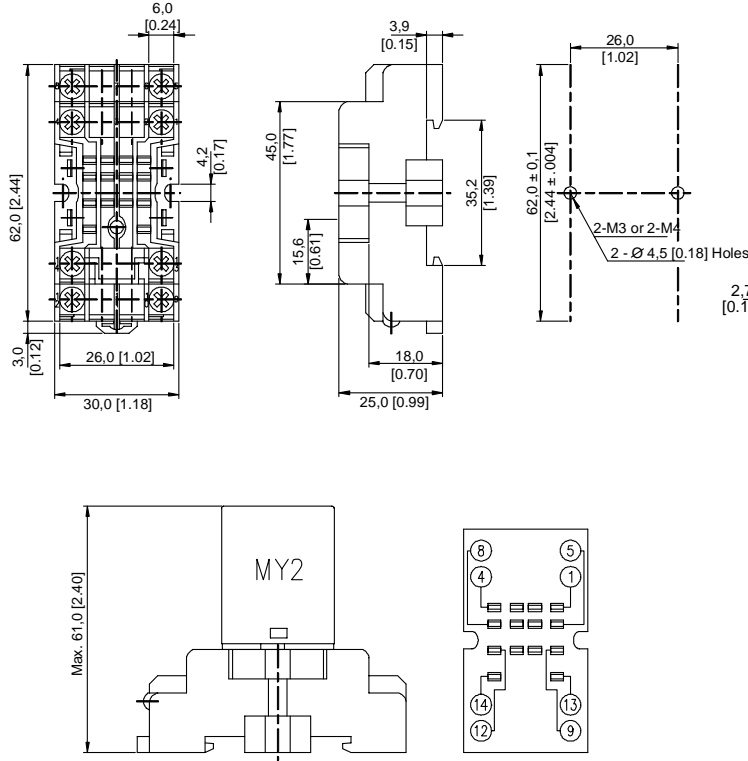


Figure 9. SZX-SMB-08 Dimensions

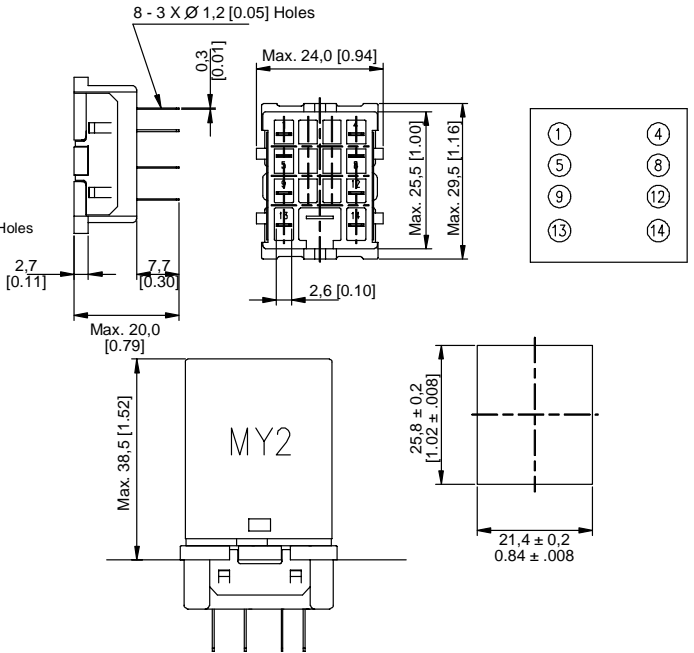


Figure 10. SZX-SMF-14N Dimensions

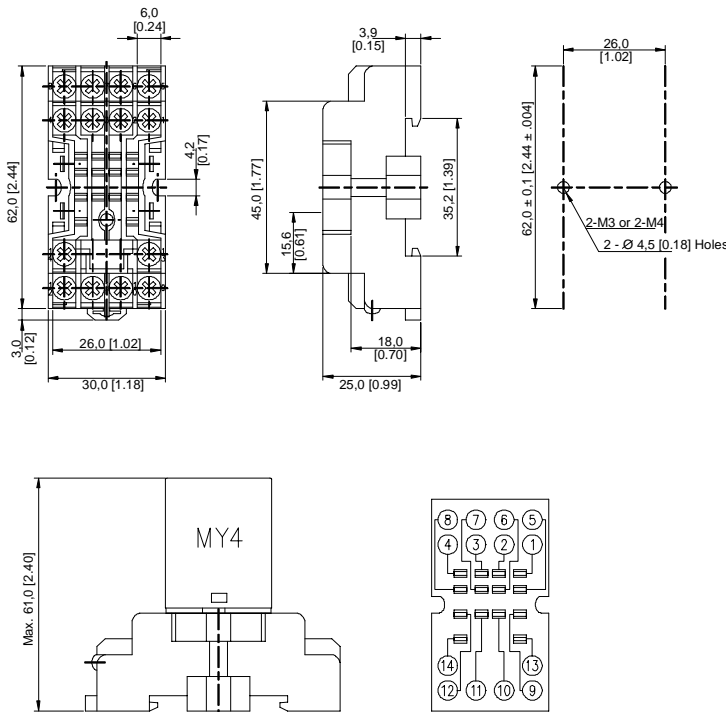
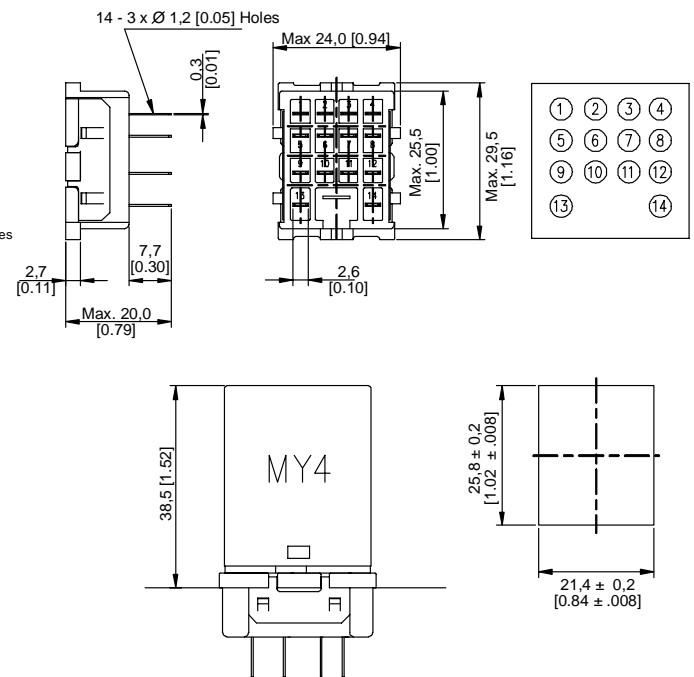


Figure 11. SZX-SMB-14 Dimensions



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SOCKETS - REQUIRED ACCESSORIES (For reference only - mm/im)

Figure 12. SZX-SMB-08P Dimensions

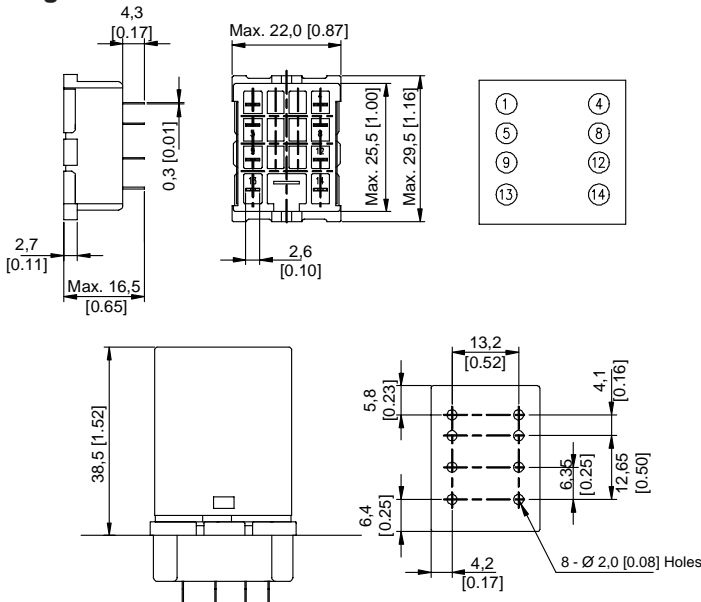
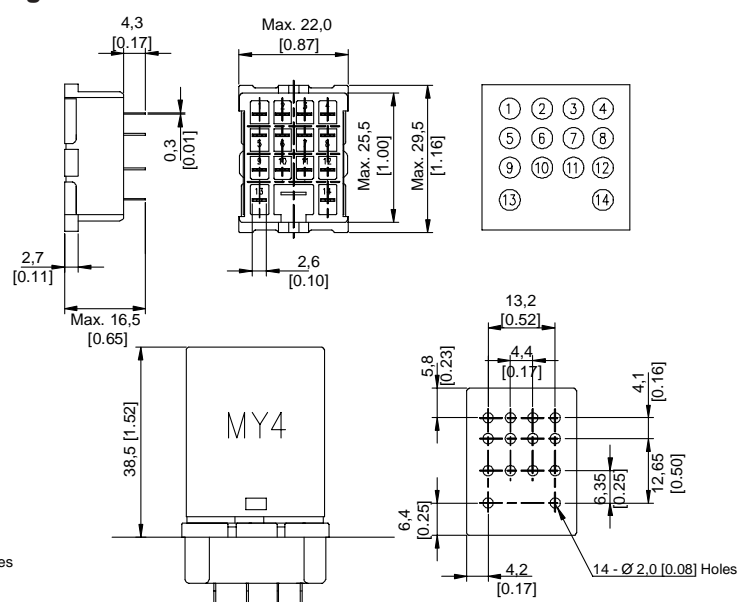


Figure 13. SZX-SMB-14P Dimensions



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Honeywell

Control Products

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