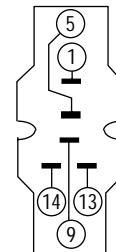
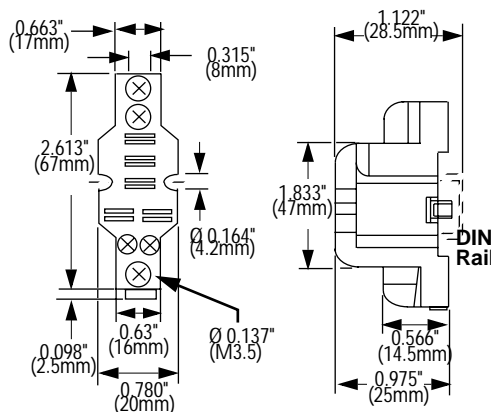
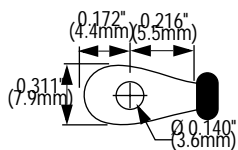


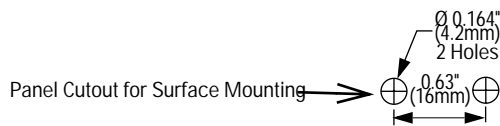
### SH Series: DIN Rail Snap-Mount Sockets

#### SH1B Sockets



#### SH1B-05

<b>Style</b>	5-blade, snap-mount/surface mount
<b>Terminal</b>	(Coil) M3 screws/(contact) M3.5 screws with captive wire clamp
<b>Wire Size</b>	Maximum up to 2-#12AWG
<b>Electrical Rating</b>	250V, 10A
<b>Compatible Relay</b>	RH1B, RAHB, RBHB
<b>Hold-Down Spring</b>	SY2S-02F1
<b>Hold-Down Clip</b>	SFA-101, SFA-202

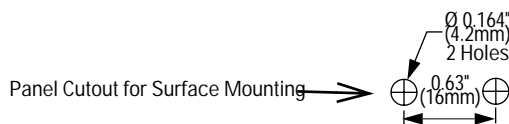
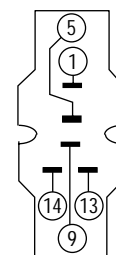
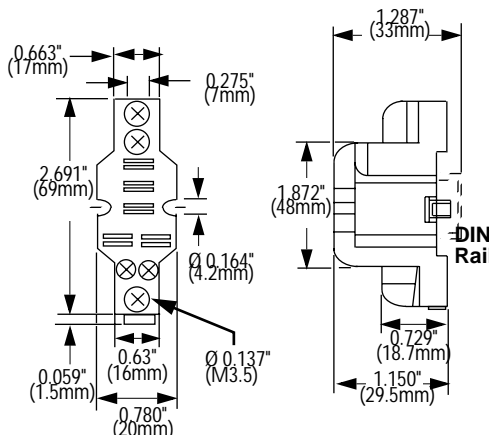


**F**



#### SH1B-05C Fingersafe

<b>Style</b>	5-blade, snap-mount/surface mount
<b>Terminal</b>	(Coil) M3 screws/(contact) M3.5 screws with captive wire clamp, fingersafe
<b>Wire Size</b>	Maximum up to 2-#12AWG
<b>Electrical Rating</b>	250V, 10A
<b>Compatible Relay</b>	RH1B, RAHB, RBHB
<b>Hold-Down Spring</b>	SY2S-02F1
<b>Hold-Down Clip</b>	SFA-101, SFA-202



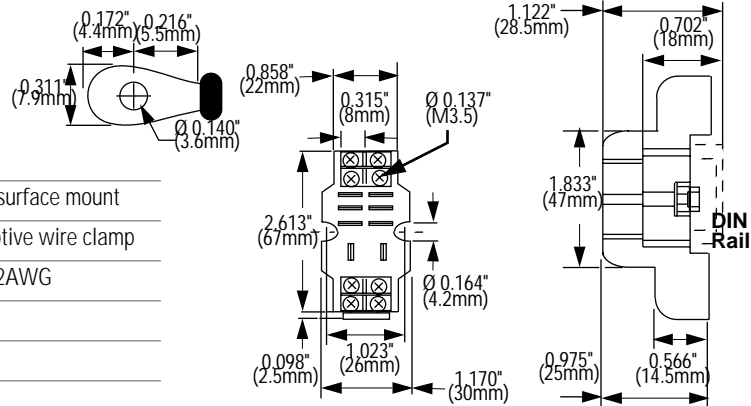
1. For socket mounting accessories, see page F-22.
2. For hold-down clip/spring selections, see page F-4.

### SH2B Sockets

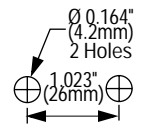
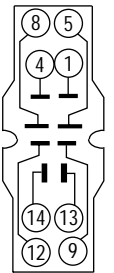


#### SH2B-05

<b>Style</b>	8-blade, snap-mount/surface mount
<b>Terminal</b>	M3.5 screws with captive wire clamp
<b>Wire Size</b>	Maximum up to 2-#12AWG
<b>Electrical Rating</b>	300V, 10A
<b>Compatible Relay</b>	RH2B, RAMB, RBMB
<b>Hold-Down Spring</b>	SY4S-02F1
<b>Hold-Down Clip</b>	SFA-101, SFA-202



#### Terminal Arrangements (top view)

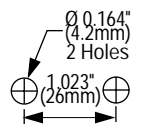
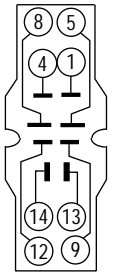
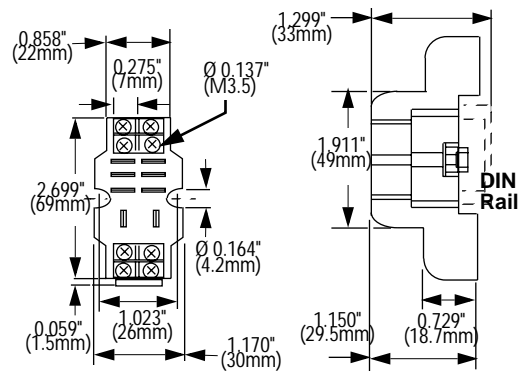


Panel Cutout for Surface Mounting →



#### SH2B-05C Fingersafe

<b>Style</b>	8-blade, snap-mount/surface mount
<b>Terminal</b>	M3.5 screws with captive wire clamp, fingersafe
<b>Wire Size</b>	Maximum up to 2-#12AWG
<b>Electrical Rating</b>	300V, 10A
<b>Compatible Relay</b>	RH2B, RAMB, RBMB
<b>Hold-Down Spring</b>	SY4S-02F1
<b>Hold-Down Clip</b>	SFA-101, SFA-202

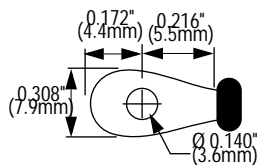


Panel Cutout for Surface Mounting →



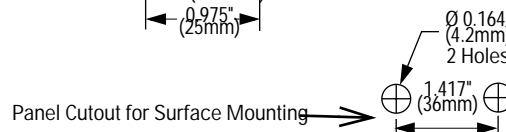
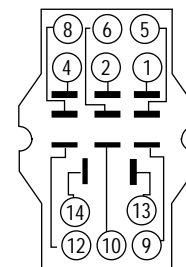
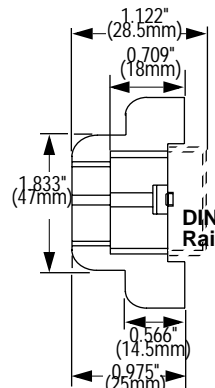
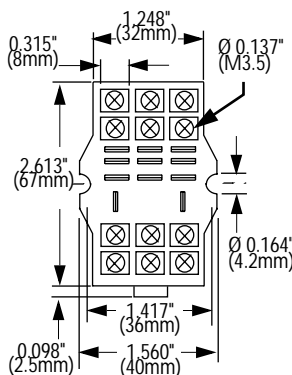
1. For socket mounting accessories, see page F-22.
2. For hold-down clip/spring selections, see page F-4.

### SH3B Sockets



#### SH3B-05

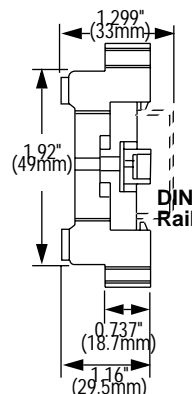
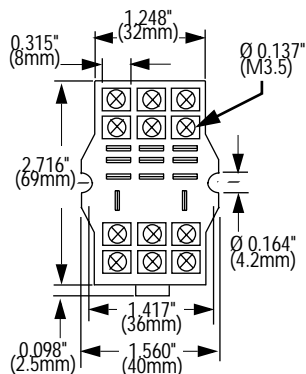
<b>Style</b>	11-blade, snap-mount/surface mount
<b>Terminal</b>	M3.5 screws with captive wire clamp
<b>Wire Size</b>	Maximum up to 2-#12AWG
<b>Electrical Rating</b>	300V, 10A
<b>Compatible Relay</b>	RH3B, *RH2LB (*latching relay)
<b>Hold-Down Spring</b>	SH3B-05F1
<b>Hold-Down Clip</b>	SFA-101, SFA-202



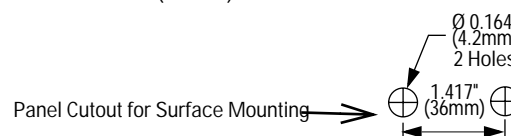
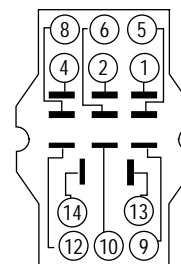
**F**

#### SH3B-05C Fingersafe

<b>Style</b>	11-blade, snap-mount/surface mount
<b>Terminal</b>	M3.5 screws with captive wire clamp, fingersafe
<b>Wire Size</b>	Maximum up to 2-#12AWG
<b>Electrical Rating</b>	300V, 10A
<b>Compatible Relay</b>	RH3B, *RH2LB (*latching relay)
<b>Hold-Down Spring</b>	SH3B-05F1
<b>Hold-Down Clip</b>	SFA-101, SFA-202

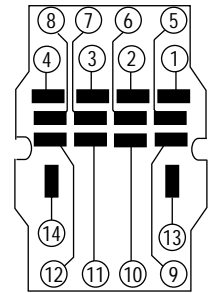
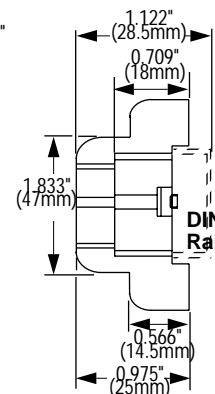
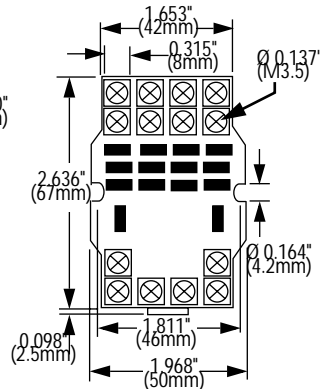
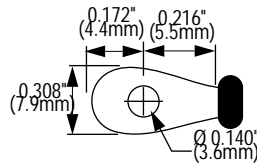


#### Terminal Arrangements (top view)



1. For socket mounting accessories, see page F-22.
2. For hold-down clip/spring selections, see page F-4.

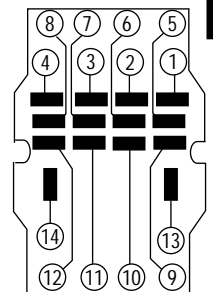
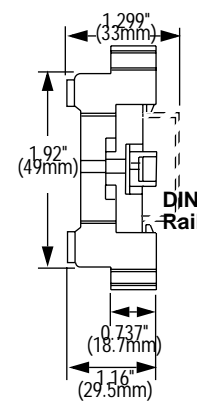
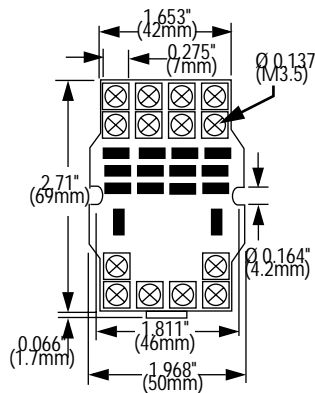
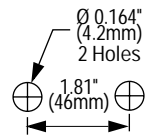
### SH4B Sockets



#### SH4B-05

<b>Style</b>	14-blade, snap-mount/surface mount
<b>Terminal</b>	M3.5 screws with captive wire clamp
<b>Wire Size</b>	Maximum up to 2-#12AWG
<b>Electrical Rating</b>	300V, 10A
<b>Compatible Relay</b>	RH4B
<b>Hold-Down Spring</b>	SH4B-02F1
<b>Hold-Down Clip</b>	SFA-101, SFA-202

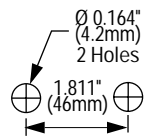
Panel Cutout for Surface Mounting →



#### SH4B-05C Fingersafe

<b>Style</b>	14-blade, snap-mount/surface mount
<b>Terminal</b>	M3.5 screws with captive wire clamp, fingersafe
<b>Wire Size</b>	Maximum up to 2-#12AWG
<b>Electrical Rating</b>	300V, 10A
<b>Compatible Relay</b>	RH4B
<b>Hold-Down Spring</b>	SH4B-02F1
<b>Hold-Down Clip</b>	SFA-101, SFA-202

Panel Cutout for Surface Mounting →

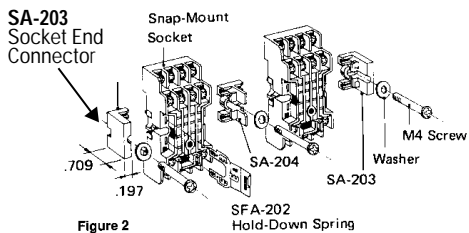







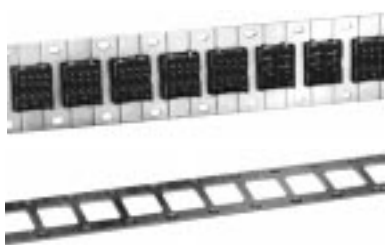


**F**



1. For socket mounting accessories, see page F-22.
2. For hold-down clip/spring selections, see page F-4.

**Accessories**



Description	Appearance	Use with	Part No.	Remarks
<b>Aluminum DIN Rail</b> (1 meter length)		All DIN rail sockets	BNDN1000	IDEC offers a low-profile DIN rail (BNDN-1000). The BNDN-1000 is designed to accommodate snap-mount sockets and surface mount sockets. Made of durable extruded aluminum, the BNDN-1000 measures 0.413" in height and 1.37" (35mm) in width (DIN standard). Standard length is 39" (1,000mm).
<b>DIN Rail End Stop</b>		BNDN1000 DIN rail	BNL5	9.1 mm wide.
<b>Surface Mount End Connector</b>		SY2S, SY4S, SR3B, SH1B, SH2B, SH3B, SH4B	SA-203	For use on ends of socket groupings when surface mounting.
			SA-204	For use between adjoining sockets when surface mounting.
<b>Surface Mount Connector</b>		SY2S, SY4S, SR3B, SH1B, SH2B, SH3B, SH4B	SA-405	For use between adjoining sockets when surface mounting.
<b>DIN Rail Spacer</b>		All DIN rail sockets	SA-406	
<b>Steel Mounting Plates</b> (for panel mount sockets)		SY4S-51, SH2B-51	SA-402	11.42" length with 10 holes.
		SY4S-51, SH2B-51	SA-403	23.33" length with 21 holes.
<b>Relay Holders</b>		RH2B, RM2S, RY4S, RY42S, RY2LS, RAMB, RBMB	RH-01	For diagram, see next page.
		RY2S, RAHB, RBHB, RH1B	RH-03	
<b>Replacement Hold-Down Spring Anchor</b> (horseshoe clip)		All DIN rail sockets	Y778-011	For use with hold-down springs (bale wire types) or DIN rail mount sockets. 2 pieces included with each socket.

**F**

## Instructions

### Mounting Snap-Mount Sockets

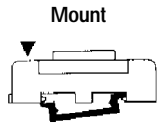


Figure 1

Snap-mount sockets are designed to mount on the BNDN-1000 mounting rail. The built-in mounting clip eliminates mounting hardware and reduces mounting time by 80%.

To mount see Figure 1. Place the end of the socket (end opposite of mounting clip against the outer edge of the rail). Press the socket down firmly until the clip snaps onto the mounting rail. To remove see Figure 2. Pull out the mounting clip with a screwdriver, and lift the socket.

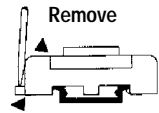
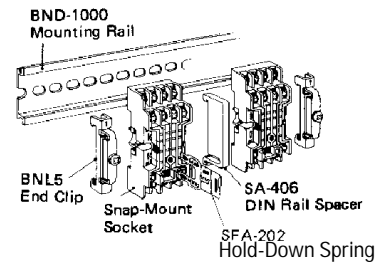


Figure 2

For spacing between adjoining sockets, use the SA-406 DIN rail spacer. Spacers are 0.195" wide. Spacing can be adjusted according to the number of spacers added. Spacers snap on and off easily like snap-mount sockets.

To prevent side-to-side movement, use a BNL-5 end clip at **each** end of every socket row.



### Mounting Relay Holders

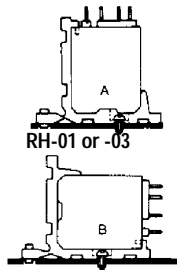


Figure 1

Mount directly onto panel boards in two alternate positions: A and B (see Figure 1).

To mount the relay into the holder, hook the bottom edge of the relay case (coil terminal side) onto the relay holder (see Figure 2).

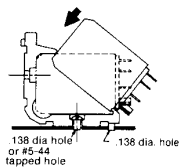


Figure 2

Push down until the relay snaps into place.



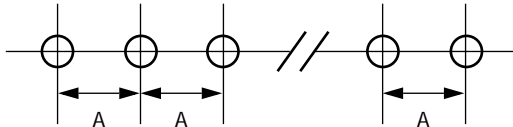
## Dimensions

### Surface Mount Sockets (SH2B-02)

IDEC surface mount sockets (SH2B-02) are also designed to mount individually or collectively on a flat surface without the use of a DIN rail. Use the mounting screw between adjoining sockets and at the outer ends of the row of sockets.

#### Dimension Table

Socket Part No.	Dimension A
SH2B-02	1.14"



1. Drawing is not to scale.

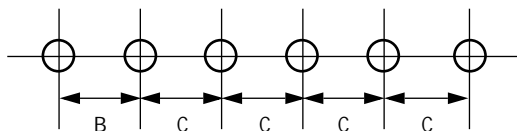
### Snap-Mount Sockets

**F** Snap-mount sockets are designed to mount individually or collectively without using a rail. Use a SA-405 connector or SA-204 connector between adjoining sockets (see Figures 1 and 2). Use the SA-203 end connector at the outer ends of each socket row when using the SA-204 connector (see Figure 2).

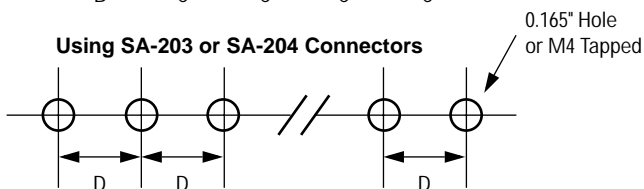
#### Dimension Table

Socket Part No.	Dim. B	Dim. C	Dim. D
SY2S-05, SY2S-05C	0.669"	0.826"	0.866"
SY4S-05, SY4S-05C	1.024"	1.181"	1.220"
SR3B-05	1.496"	1.693"	1.732"
SH1B-05, SH1B-05C	0.630"	0.787"	0.827"
SH2B-05, SH2B-05C	1.024"	1.181"	1.220"
SH3B-05, SH3B-05C	1.417"	1.575"	1.614"
SH4B-05, SH4B-05C	1.811"	1.969"	2.008"

#### Using an SA-406 Connector



#### Using SA-203 or SA-204 Connectors



2. Drawings are not to scale.

## Relay Socket Selection Guide

### Relay Sockets

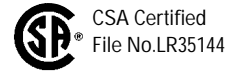
Mounting	Series	Page	Part No.	No. of Poles	Receptacle	Terminal	Compatible IDEC Relay and Timer	
DIN Rail Snap-Mount 	SR	F-5	SR2P-05 SR2P-05C SR2P-06	2	8-Pin	M3.5 Screw	RR2P, RAPP, RBPP, GT5P, RTE-P1, GT3 (8-pin)	
			SR3P-05 SR3P-05C SR3P-06	3	11-Pin		RR3PA, RR2KP, RTE-P2 GT3 (11-pin)	
			SR3B-05	3	11-Blade		RR1BA, RR2BA, RR3B, RTE-B	
	SH	F-8	SH1B-05 SH1B-05C	1	5-Blade	M3.5 Screw Coil Terminal: M3	RH1B, RAHB, RBHB	
			SH2B-05 SH2B-05C	2	8-Blade	M3.5 Screw	RH2B, RAMB, RBMB	
			SH3B-05 SH3B-05C	3	11-Blade		RH3B, RH2LB	
			SH4B-05 SH4B-05C	4	14-Blade		RH4B	
	SY	F-12	SY2S-05 SY2S-05C	2	8-Blade	M3 Screw	RY2S, RY22S	
			SY4S-05 SY4S-05C	4	14-Blade		RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5Y	
	Panel Mount 	SR	F-14	SR2P-51	2	8-Pin	Solder	RR2P, RAPP, RBPP, GT5P, RTE-P1, GT3 (8-pin)
				SR3P-51	3	11-Pin		RR3PA, RR2KP, RTE-P2, GT3 (11-pin)
				SR3B-51	3	11-Blade		RR1BA, RR2BA, RR3B
SH		F-15	SH1B-51	1	5-Blade	RH1B, RAHB, RBHB		
			SH2B-51	2	8-Blade	RH2B, RAMB, RBMB		
			SH3B-51	3	11-Blade	RH3B, RH2LB		
			SH4B-51	4	14-Blade	RH4B		
SY		F-17	SY2S-51	2	8-Blade	RY2S, RY22S		
			SY4S-51	4	14-Blade	RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5Y		
Surface Mount 		SH	F-18	SH2B-02	2	8-Blade		M3.5 Screw
PCB Mount 	SH	F3-19	SH1B-62	1	5-Blade	PC Board	RH1B, RAHB, RBHB	
			SH2B-62	2	8-Blade		RH2B, RAMB, RBMB	
			SH3B-62	3	11-Blade		RH3B, RH2LB	
			SH4B-62	4	14-Blade		RH4B	
	SY	F3-20	SY2S-61	2	8-Blade		RY2S, RY22S	
			SY4S-61	4	14-Blade		RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5Y	
			SY4S-62	4	14-Blade	RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5Y		



For relay mounting accessories, see page F-22.



<b>Specifications</b>	<b>Rated Insulation Voltage</b>	300V; except SH1B and SY4S-62: 250V
	<b>Rated Current</b>	SR/SH: 10A, SY: 7A (SH1B coil terminal 7A)
	<b>Insulation Resistance</b>	100MΩ minimum
	<b>Dielectric Strength</b>	2,000V AC, 1 minute
	<b>Material Grade</b>	UL94V-0



File No. BL950813332307 \*



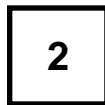
1. \* Applicable to DIN rail sockets only.

### Relay Socket Part Numbering Guide

Relay socket part numbers are composed of 5 part number codes. When ordering a relay socket, select one code from each category.  
Example: SR2P-05C



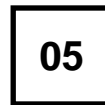
① Socket Series



② No. of Poles



③ Termination



④ Mounting Style



⑤ Fingersafe Option

**F**

#### Part Numbers: Relay Sockets

	Description	Part Number Code	Remarks
① Socket Series	SR	SR	For use with RR series relays
	SH	SH	For use with RH series relays
	SY	SY	For use with RY series relays
② No. of Poles	1-pole	1	SH series
	2-pole	2	SR, SH, and SY series
	3-pole	3	SR, and SH series
	4-pole	4	SH series
③ Termination	Tubular pin	P	SR series
	Blade	B	SH series
	Solder/blade	S	SY series
④ Mounting Styles	DIN rail snap-mount	05	To decide between configuration 05 and 06, see pictures and schematics beginning on page F-5 Model 05 is available as 05C with a fingersafe option; see ⑤ below
		06	
	Panel mount	51	
	PC board mount	61	
		62	
⑤ Fingersafe Option	With finger-protection terminals	C	Available only on SR, SH, and SY series snap-mount sockets
	Without finger-protection terminals	Leave blank	



2. For hold-down springs and clips for DIN rail snap-mount, panel mount, and PC board mount, see page F-4.  
3. For socket accessories, see page F-22.

## Hold-Down Springs and Clips Selection Guide

### DIN Rail Snap-Mount Sockets

Socket Part No.	Applicable Relays, Timer	Hold-Down Spring	Hold-Down Clip
SR2P-05 SR2P-05C	RR2P, RAPP, RBPP	SR2B-02F1	SFA-203
	RTE-P1, GT3, GT5P	—	SFA-203
SR2P-06	RR2P, RAPP, RBPP	SR2B-02F1	SFA-202
	GT3 (8-pin), RTE-P1, GT5P	—	SFA-202
SR3P-05 SR3P-05C	RR3PA	SR3B-02F1	SFA-203
	RR2KP	SR3P-06F3	SFA-203
	RTE-P2, GT3 (11-pin)	—	SFA-203
SR3P-06	RR3PA	SR3B-02F1	SFA-202
	RR2KP	SR3P-06F3	SFA-202
	RTE-P2, GT3 (11-pin)	—	SFA-202
SR3B-05	RR1BA, RR2BA, RR3B, RTE-B	SR3B-02F1	SFA-202
SH1B-05 SH1B-05C	RH1B, RAHB, RBHB	SY2S-02F1	SFA-101 SFA-202
SH2B-05 SH2B-05C	RH2B, RAMB, RBMB	SY4S-02F1	SFA-101 SFA-202
SH3B-05 SH3B-05C	RH3B, RH2LB	SH3B-05F1	SFA-101 SFA-202
SH4B-05 SH4B-05C	RH4B	SH4B-02F1	SFA-101 SFA-202
SY2S-05 SY2S-05C	RY2S, RY22S	SY2S-02F1	SFA-101 SFA-202
SY4S-05 SY4S-05C	RY4S, RY42S, RY2LS, RM2S	SY4S-51F1	SFA-101 SFA-202
	RY2KS, GT5Y	(SY4S-51F3)	SFA-202

### Panel and PC Board Mount Sockets

Socket Part No.	Applicable Relays, Timer	Hold-Down Spring	Hold-Down Clip
SR2P-51	RR2P, RAPP, RBPP	SR3P-01F1	—
	GT3 (8-pin), RTE-P1	—	SFA-402
SR3P-51	RR3PA	SR3P-01F1	—
	RR2KP	SR3P-51F3	—
	GT3 (11-pin), RTE-P2	—	SFA-402
SR3B-51	RR1BA, RR2BA, RR3B, RTE-B	SR3B-02F1	—
SH1B-51 SH1B-62	RH1B, RAHB, RBHB	SY4S-51F1	SFA-301 SFA-302
SH2B-51	RH2B, RAMB, RBMB	SY4S-51F1 (SY4S-02F1)	SFA-301 SFA-302
SH2B-62	RH2B, RAMB, RBMB	SY4S-51F1 (SY4S-02F1)	—
SH3B-51 SH3B-62	RH3B, RH2LB	SY4S-51F1 (SY4S-02F1)	SFA-301 SFA-302
SH4B-51 SH4B-62	RH4B	SY4S-51F1 (SY4S-02F1)	SFA-301 SFA-302
SY2S-51 SY2S-61	RY2S, RY22S	SY4S-51F1	SFA-301 SFA-302
SY4S-51 SY4S-61	RY4S, RY42S, RY2LS	SY4S-51F1 (SY4S-02F1)	SFA-301 SFA-302
	RY2KS	SY4S-51F1 (SY4S-02F3)	SFA-302
	GT5Y	—	SFA-302
SY4S-62 *	RY4S, RY42S, RY2LS, RM2S	SY4S-51F1 (SY4S-02F1)	—
	RY2KS	SY4S-51F1 (SY4S-02F3)	—

\* Does not accept hold down clips

**F**

- When mounting relays with a check button onto panel mount or PC board mount sockets, use the hold-down spring shown in parenthesis. Hold-down springs for relays with check buttons are not available for SR2P-51.
- For close mounting of panel mount or PC mount sockets, use hold-down clips rather than hold-down springs.



SFA-101



SFA-202



SFA-302



SFA-402



SR3P-01F1



SY4S-51F1