THERMOSTATS & CONTROLLERS

LOW & HIGH TEMPERATURE LIMIT CONTROLS
A70 SERIES

DESCRIPTION

The **Johnson Controls A70 Series** heavy-duty temperature-limit controls incorporate a vapor charged sensing element. **A70G, A70H,** and **A70K** have a four-wire, two-circuit contact block that contains two isolated sets of contacts. The contacts are designed to transfer at set point so that when the main contact opens, the auxiliary contact closes simultaneously. Typical applications include shutdown of a ventilation system and BAS alarm indication upon low or high temperature.

FEATURES

- *Automatic or manual reset models*
- *Long-life, snap-acting contacts*
- *Easy set point adjust*
- *One-year warranty*

A70HA-1

Johnson Controls

UL

SPECIFICATIONS

MODEL	SWITCH ACTION (Main contacts) LINE-M2	TEMP RANGE °F (°C)	RESET °F (°C)	BULB/ CAPILLARY	MAX BULB TEMP °F (°C)	RANGE ADJUSTER	MOTOR RATINGS (VAC)	LINE-M2 (Main)				LINE-M1 (Auxiliary)			
								120	208	240	277	120	208	240	277
A70GA-1* Low Limit	Open Low	15 to 55* (-10 to 13)	Auto 5 (2.8)	20' of 1/8" (6m of 0.32 cm) OD tubing	400 (260)	Screwdriver Slot	AC Full Load Amp	16.0	9.2	8.0	–	6.0	3.3	3.0	–
A70HA-1* Low Limit	Open Low	15 to 55* (-10 to 13)	Manual Reset	20' of 1/8" (6m of 0.32 cm) OD tubing	400 (260)	Screwdriver Slot	AC Non-Inductive Amp	16.0	9.2	8.0	7.2	6.0	6.0	6.0	6.0
A70HA-2 Low Limit	Open Low	35 to 80 (1.7 to 27)	Manual Reset	3/8" x 3" (0.95 x 7.6 cm) 6' (1.9m) cap	250 (121)	Screwdriver Slot	Pilot Duty	125 VA, 24-600 VAC 57.5 VA, 120-300 VDC							
A70KA-1 High Limit	Open High	100 to 170 (38 to 77)	Manual Reset	3/8" x 10" (0.95 x 25.4 cm) 6' (1.9m) cap	240 (116)	Screwdriver Slot	Approvals	UL Listed File #SA516							

*The low cut-out stop is set and sealed at 35°F (1.6°C). The control responds to the lowest temperature along any 1' (30.5 cm) section of the 20' (6m) element.
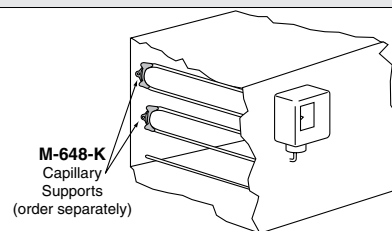
WIRING

Line   Line

Control Circuit   Auxiliary Contacts

M2   M1
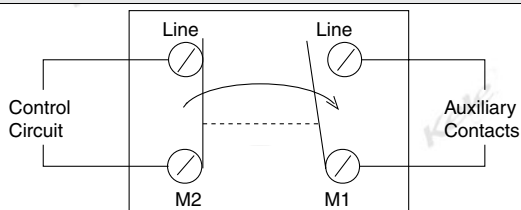
A70 Series
Low Limit - Action on temperature decrease
High Limit - Action on temperature increase

INSTALLATION

M-648-K
Capillary Supports
(order separately)

Mount sensor horizontally for proper measurement. Typically mounted downstream of a coil with capillary exposed to all areas likely to encounter low or high temperatures as required.

ORDERING INFORMATION

MODEL	DESCRIPTION
A70GA-1	Low-limit temperature control, automatic reset, 20' (6m) element
A70HA-1	Low-limit temperature control, manual reset, 20' (6m) element
A70HA-2	Low-limit temperature control, manual reset, 3" (7.6 cm) element, 6' (1.9m) capillary
A70KA-1	High-limit temperature control, manual reset, 10" (25.4 cm) element, 6' (1.9m) capillary

RELATED PRODUCTS

CC-1G-K	Plastic capillary and sensor holder mounting clip
ES1051	Freeze spray, 8 fl oz
M-648-K	Copper-clad capillary mounting clip

Section F

Sockets

for more information on this product family visit

www.idec.com/socket

Additional Web Resources
- New and updated product information
- Downloadable software demos & upgrades
- Part configuration tool & cross reference
- Online stock check & ordering
- IDEC field sales & distributor search
- Online literature request
- Downloadable manuals & CAD drawings
- Manufacturer's suggested retail price list
- Product training schedule & locations
- Advertising & trade show schedules
- Press releases & FAQs

www.idec.com/socket

Relay and Timer Socket Selection Guide

Relay and Timer Socket

F — *Sockets*

Mounting	Series	Page	Part No.	No. of Poles	Receptacle	Terminal	Compatible IDEC Relay and Timer
DIN Rail Snap/Surface-Mount	SU	F-6	SU2S-11L	2	8-Blade	Spring Clamp Terminals	RU2, RM2
			SU4S-11L	4	14-Blade		RU4, RU42, RY4, RY42
	SR	F-11	SR2P-05 SR2P-05C SR2P-06	2	8-Pin	M3.5 Screw	RR2P, 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-14	SH1B-05 SH1B-05C	1	5-Blade	M3.5 Screw Coil Terminal: M3	RH1B
			SH2B-05 SH2B-05C	2	8-Blade	M3.5 Screw	RH2B
			SH3B-05 SH3B-05C	3	11-Blade		RH3B, RH2LB
			SH4B-05 SH4B-05C	4	14-Blade		RH4B
	SY	F-18	SY2S-05 SY2S-05C	2	8-Blade	M3 Screw	RY2S, RY22S
			SY4S-05 SY4S-05C	4	14-Blade		RU4S, RU42S, RY4S, RY42S, RY2KS, RM2S, GT5Y
	SM	F-20	SM2S-05 SM2S-05C	2	8-Blade	M3 Screw	RU2S, RM2S
	SJ	F-9	SJ1S-05B SJ1S-07L	1	5-Blade	M3 Screw	RJ1S
			SJ2S-05B SJ2S-07L	2	8-Blade		RJ2S
	SQ	F-10	SQ1V-07B	1	5-Blade		RQ1V-CM
			SQ2V-07B	2	8-Blade		RQ2V-CN RQ1V-CH
Through Panel Mount	SR	F-21	SR2P-51	2	8-Pin	Solder	RR2P, 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-22	SH1B-51	1	5-Blade		RH1B
			SH2B-51	2	8-Blade		RH2B
			SH3B-51	3	11-Blade		RH3B, RH2LB
			SH4B-51	4	14-Blade		RH4B
	SY	F-24	SY2S-51	2	8-Blade		RY2S, RY22S
			SY4S-51	4	14-Blade		RY4S, RY42S, RU4S, RU42S, RY2KS, RM2S, GT5Y
PCB Mount	SH	F3-25	SH1B-62	1	5-Blade	PC Board	RH1B
			SH2B-62	2	8-Blade		RH2B
			SH3B-62	3	11-Blade		RH3B, RH2LB
			SH4B-62	4	14-Blade		RH4B
	SY	F3-26	SY2S-61	2	8-Blade		RY2S, RY22S
			SY4S-61	4	14-Blade		RY4S, RY42S, RU4S, RU42S, RY2KS, RM2S, GT5Y
			SY4S-62	4	14-Blade		RY4S, RY42S, RU4S, RU42S, RY2KS, RM2S, GT5Y

For Panel Mounted Timers

Mounting	Series	Page	Part No.	No. of Poles	Receptacle	Terminal	Compatible IDEC Relay and Timer
	SR	F-28	SR6P-M08G	2	8-pin	M3.5 Screw	GE1A; RTE-P1; GT3 (8-pin);
			SR6P-M11G		11-pin		RTE-P2; GT3 (11-pin)

✋ *For relay mounting accessories, see page F-29.*

Specifications

SU, SR, SH, SM, SY

Specifications		
	Rated Insulation Voltage	300V; except SH1B, SU and SY4S-62: 250V
	Rated Current	SU2/SR/SH/SM: 10A, SY: 7A, SU4: 6A with RU4, SU4: 10A with RU2 (SH1B: 7A)
	Insulation Resistance	100MΩ minimum
	Dielectric Strength	2,000V AC, 1 minute
	Material Grade	UL94V-0
	Terminal Torque	3.5mm Screws, 9-11.5 in•lbs 3mm screws, 5.5-9 in•lbs

1. ** Applicable to DIN rail sockets only.*

UL Recognized
File No. E62437

CSA Certified
File No.LR35144

TÜV PRODUCT SERVICE
File No. BL950813332307

C E

SJ, SQ

Specifications	SJ Series	SQ Series
Rated Current	SJ1S: 12A Max; SJ2S: 8A Max	SQ1V: 12A Max; SQ2V: 10A Max
Rated Voltage	250V	300V
Applicable Wire	2x #14 (2.5mm^2)	2x #14 (2.5mm^2)
Applicable Crimping Terminal	2mm^2 x 2	1.5mm^2 x 2
Terminal Torque	0.6 to 1.0Nm	1.0Nm Max
Screw Size	M3 Slotted Phillip Captive Screw	M3 Slotted Phillip Captive Screw
Dielectric Strength (Coil/Contact)	4,000VAC	3,000VAC
Insulation Resistance	≥100 MΩ Minimum	≥100 MΩ Minimum
Operating Temperature	-40 to 70°C (no freezing)	-25 to +85°C
Operating Humidity	5~85% RH (no condensation)	45~85% RH

CSA Certified
File No.LR84913

UL Recognized
File No. E141060

UL Recognized
File No. E62437

C E

F

Sockets

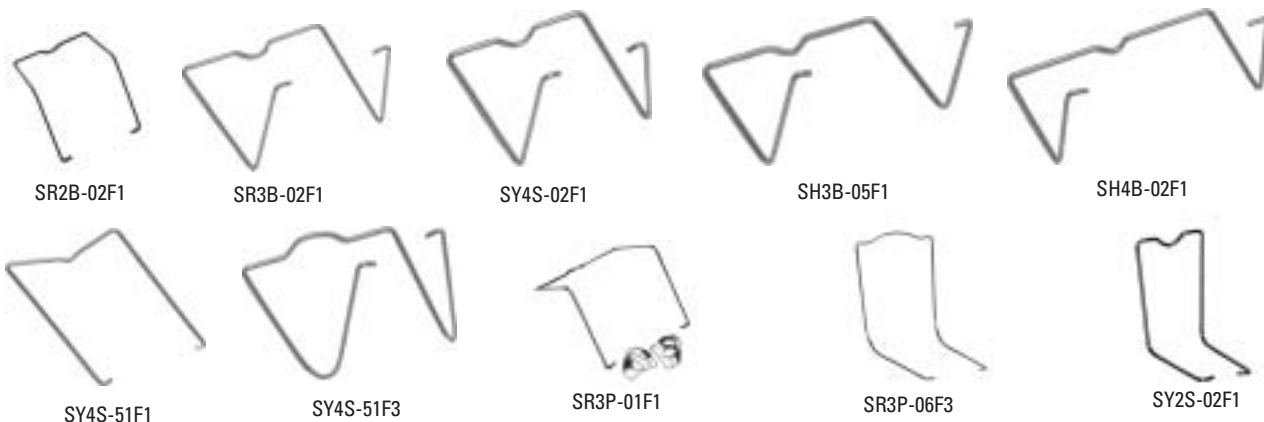## Hold-Down Springs and Clips Selection Guide

DIN Rail Snap/Surface-Mount Sockets

Socket Part No.	Applicable Relays, Timer	Hold-Down Pullover Spring	Hold-Down Clip (side latch)	Hold-Down Clip (top latch)
SU2S-11L SU4S-11L	RM2S, RU2, GT5Y-2	SY4S-51F1	SFA-202	SFA-101
	RY4S, RY42S, RU4, RU42, GT5Y, RY2KS, RM2S	SY4S-51F1	SFA-202	SFA-101
SR2P-05 SR2P-05C	RR2P	SR2B-02F1	SFA-203	—
	RTE-P1, GT3, GT5P	—	SFA-203	—
SR2P-06	RR2P	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	SY2S-02F1	SFA-202	SFA-101
SH2B-05 SH2B-05C	RH2B	SY4S-02F1	SFA-202	SFA-101
SH3B-05 SH3B-05C	RH3B, RH2LB	SH3B-05F1	SFA-202	SFA-101
SH4B-05 SH4B-05C	RH4B	SH4B-02F1	SFA-202	SFA-101
SY2S-05 SY2S-05C	RY2S, RY22S	SY2S-02F1	SFA-202	SFA-101
SY4S-05 SY4S-05C	RY4S, RY42S, RU4, RU42, RM2S	SY4S-51F1	SFA-202	SFA-101
	RY2KS, GT5Y	(SY4S-51F3)	SFA-202	
SM2S	RM2S, RU2	SY4S-51F1	SFA-202	SFA-101
SJ1S SJ2S	RQ1S RJ2S	SJ9Z-C		
SQ1S SQ2S	RQ1V RQ2V	SQ9Z-C		

1. Hold-down springs work in conjunction with hold-down spring anchors included with DIN rail sockets.

2. 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.

3. For close mounting of panel mount or PC mount sockets, use hold-down clips rather than hold-down springs.

4. SFA-101, SFA-202 and SFA-302 come in pairs.

SR2B-02F1   SR3B-02F1   SY4S-02F1   SH3B-05F1   SH4B-02F1

SY4S-51F1   SY4S-51F3   SR3P-01F1   SR3P-06F3   SY2S-02F1

F

Sockets

Panel and PC Board Mount Sockets

Socket Part No.	Applicable Relays, Timer	Hold-Down Pullover Spring	Hold-Down Clip (side latch)	Hold-Down Clip (top latch)
SR2P-51	RR2P	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	SY4S-51F1	—	SFA-301 SFA-302
SH2B-51	RH2B	SY4S-51F1 (SY4S-02F1)	—	SFA-301 SFA-302
SH2B-62	RH2B	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 (SH4B-02F1)	—	SFA-301 SFA-302
SY2S-51 SY2S-61	RY2S, RY22S	SY4S-51F1	—	SFA-301 SFA-302
SY4S-51 SY4S-61	RY4S, RY42S	SY4S-51F1 (SY4S-02F1)	—	SFA-301 SFA-302
	RY2KS	SY4S-51F1 (SY4S-02F3)	SFA-302	—
	GT5Y	—	SFA-302	—
SY4S-62 *	RY4S, RY42S, RM2S	SY4S-51F1 (SY4S-02F1)	—	—
	RY2KS	SY4S-51F1 (SY4S-02F3)	—	—

* Does not accept hold down clips

SFA-101

SFA-202

SFA-302

SFA-301

SFA-203

SFA-402

F

Sockets

SU Series: DIN Rail Snap-Mount Sockets

SU2S-11L

Style	8-blade DIN-mount/surface mount
Terminal	Spring clamp terminals
Wire Size	24-16 AWG
Electrical Rating	10A
Compatible Relay	RU2, RM2
Compatible Timer	GT5Y-2
Hold-Down Clip	SFA-101 (top latch), SFA-202 (side latch)

SU4S-11L

Style	14-blade DIN-mount/surface mount
Terminal	Spring clamp terminals
Wire Size	24-16 AWG
Electrical Rating	6A (using RU4), 10A (using RU2)
Compatible Relay	RY4S, RY42S, RU4, RU42S, RY2KS, RM2S
Compatible Timer	GT5Y
Hold-Down Clip	SFA-101 (top latch), SFA-202 (side latch)

1. On the SU2S, wires or ferrules cannot be connected to terminals 2, 3, 6, 7, 10 or 11 because neither springs nor conductive brackets are installed in these terminals.
2. For socket mounting accessories, see page F-29.

Inside the Cable Ports

Center of Relay-mounting area
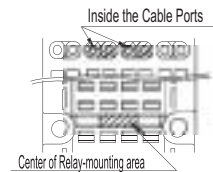
Terminal Arrangement (top view)

SU2S-11L

SU4S-11L

Dimensions

31

80

28.8

4.4

37.5

32

35.3

Parts

Wire Ports | Wire Ports | Wire Ports | Screwdriver Ports | Wire Ports

④ ⑤ ⑥

Marking Plate

Spring slots for SFA-101: ①②⑤⑥

Spring slots for SFA-202: ②③④⑤

C Terminal | NO Terminal | NC Terminal | ① ② | ③ | Coil Terminal

Clamp
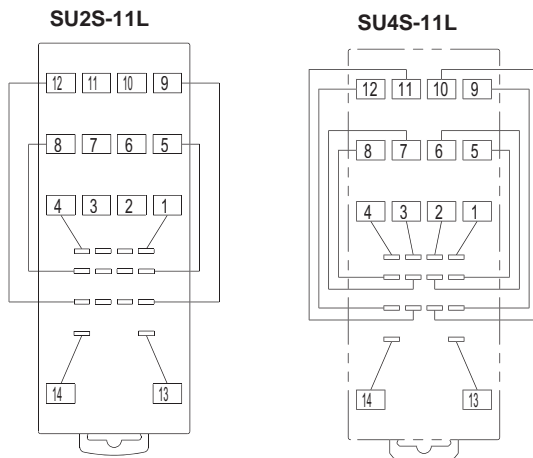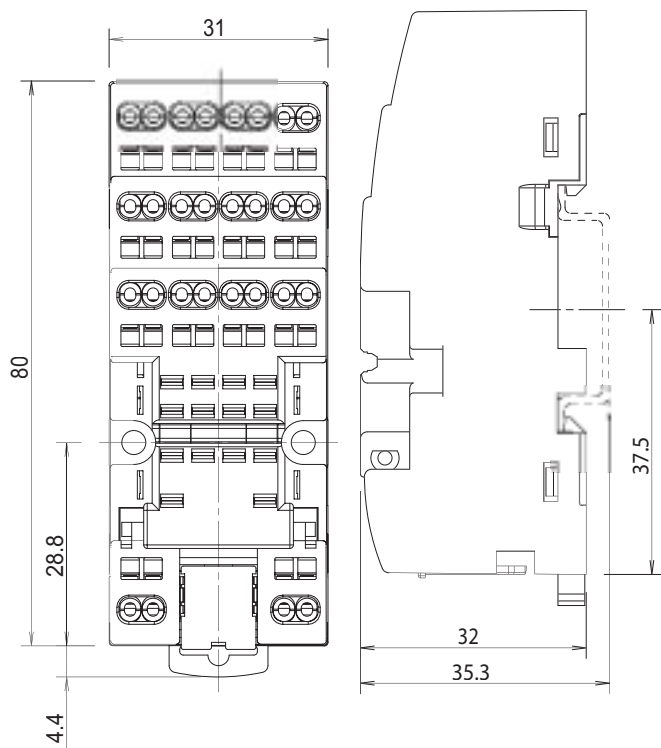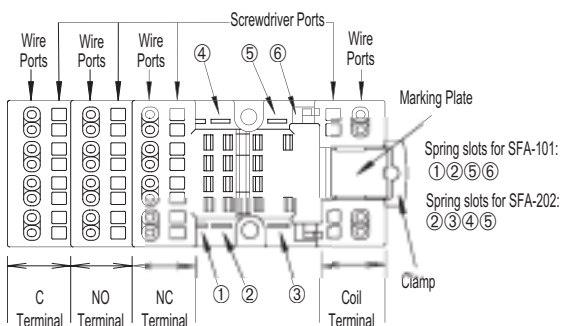
Panel Cutout for Surface Mounting

24
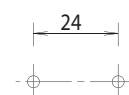
All dimensions are in mm.

SU Series: General Instructions

Applicable Wires

Wire	Size
Stranded wire	0.2 to 1.25 mm^2 or AWG24 to 16
Solid wire	0.2 to 1.5 mm^2 or AWG24 to 16
Wire insulation diameter	ø3.15mm maximum

1. Strip the wire insulation 9 to 10mm from the end.
2. In applications using ferrules for stranded wires, choose the ferrule listed in table below. Make sure that an insulation sheath is applied when using the ferrules. When using stranded wires without ferrules, make sure that the core wires have not been loosened.
3. Two cable ports are provided for each terminal.

9 to 10mm
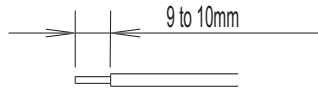
Applicable Ferrules

Applicable Wire (stranded)		Type	Manufacturer
mm^2	AWG		
0.2	24	A10.25-12BU	Phoenix Contact
–	22	A10.34-8TQ	Phoenix Contact
0.5	20	A10.5-8WH	Phoenix Contact
		A10.5-10WH	Phoenix Contact
		TE0.5	Nichifu Co. Ltd

For wiring, use the optional screwdriver (BC1S-SDO) or the following applicable screwdriver.

(Dimensions in mm)
2.5
0.4
7±0.13°
ø 2.5
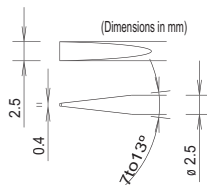
Marking Instructions

Write markings on the SU sockets using an oil-based marker, or glue printed mylar on the marking surface. The size of the printed mylar can be 8 x 9mm maximum.

Marking Surface
Marking Plate
8.0
9.0
Maximum size of printed mylar
8.0
Position of printed mylar on the marking surface

Wiring Instructions

Wire Port
Stopper
A - B sec
Screwdriver Ports
Wire Ports for Terminal 9
Wire Ports for Terminal 10
A
B
Correct
Incorrect
Incorrect
Incorrect
Direction of Screwdriver Tip
Note: Two cable ports are provided for each terminal.
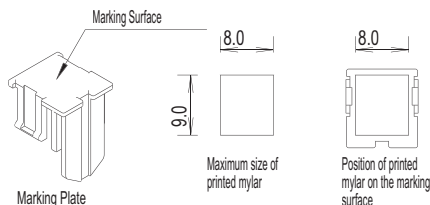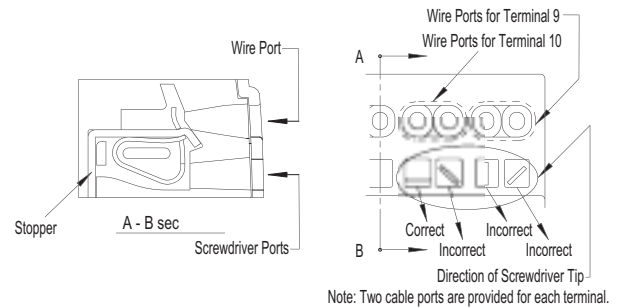
1. Insert the optional screwdriver (BC1S-SDO) or an applicable screwdriver into the square-shaped port as shown on the right, until the screwdriver tip touches the bottom of the spring.

2. Push in the screwdriver until it touches the bottom of the port. The wire port is now open, and the screwdriver is held in place. The screwdriver will not come off even if you release your hand.

3. While the screwdriver is retained in the port, insert the wire or ferrule into the round-shaped wire port. Each wire port can accommodate one wire or ferrule. When connecting two wires to one terminal, use the adjoining port of the same terminal.

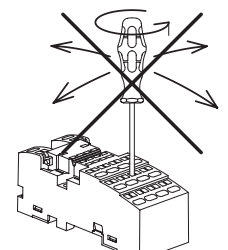4. Pull out the screwdriver. The connection is now complete.

Safety Precautions

Installing the Marking Plate

Because of its removable structure, the marking plate may have fallen from the socket or become loose in delivery. Make sure that the marking plate is securely installed before starting operation. The marking plate protects the conductive portion of the socket, located under the marking plate, by preventing metal fragments or pieces of wire from dropping inside. Should any such fragments enter the socket, they may cause fire hazard, damage, or malfunction.

Jumper Ports
Marking Plate
No marking plate
Loose fitting
Installed securely
Ribs (on both sides)
Grooves for marking plate ribs (on both sides)
Groove for Jumper
Note: For installation of optional jumper, see the instruction sheet provided with the jumper.
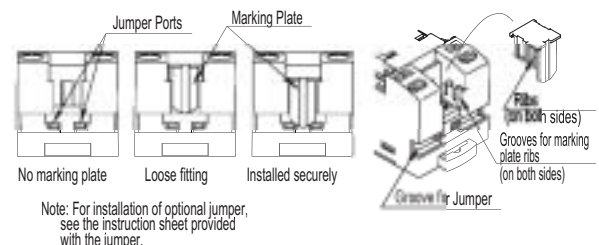
Inserting Screwdriver into the Wire Ports

F

Sockets

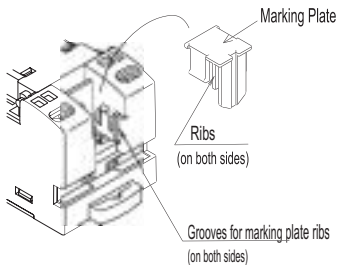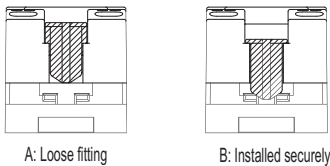## SU Series: SU9Z-J5 Jumper Installation Instructions

SU9Z-J5 Jumper for SU2S-11L and SU4S-11L

The SU9Z-J5 is used to install five sockets. When installing less than five sockets cut the jumper according to the instructions listed to the right.

The SU9Z-J5 jumper is for coil terminals only.

SU9Z-95 Jumper		
Rated Current	3A	
Material	Conductor	Nickel-plated brass
	Sheath	ABS resin

Installation

Loosen the marking plate on the socket.

A: Loose fitting   B: Installed securely

Marking Plate

Ribs
(on both sides)

Grooves for marking plate ribs
(on both sides)

Alignment

Making sure that the SU9Z-J5 jumper is correctly aligned, insert the blades into the ports in the groove of the SU sockets.

Incorrect   Correct

Insertion Direction

Jumper port
for terminal 14

Jumper port
for terminal 13

Blade

Jumper Groove   Jumper
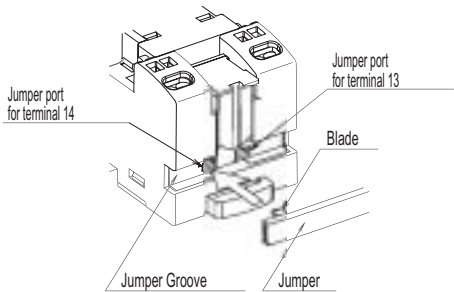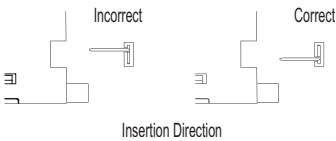
Install Jumper Securely

Press down the marking plate to secure the jumper. The jumper installation is now complete.
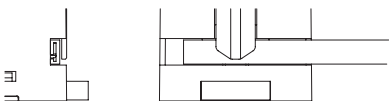
Installing Two, Three or Four SU Sockets on the SU9Z-J5 Jumper

As shown below, slide the jumper in the sheath so that the jumper aligns with the center of the sheath.

Jumper off center   Jumper on center

With the sheath properly installed on the jumper, cut the sheath and jumper at the points shown below, using cutting pliers. Referring to the drawing on the right, make sure that the sheath and jumper are cut within the cutting area. Dispose of unused portions according to local waste disposal requirements.

Shea

Jump

Shea

Cutting Area C   Cutting Area D

Cutting Area in Detail

A   B   C D
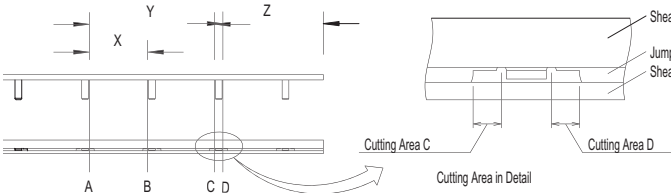
	Qty	Cutting Area	Discard
2 Sockets	2	A, C	Y
2 Sockets	1	A, B	X
3 Sockets			
4 Sockets	1	D	Z

After cutting the jumper and sheath, slide the jumper as shown below, so that the ends of the jumper are not exposed.

Jumper Wiring to Six or More SU Sockets

To jumper wire six or more SU sockets, connect five sockets using whole jumpers and the remaining sockets using a cut jumper. Then connect the two terminals on adjoining sockets using an applicable wire (see table below).

Proper wire
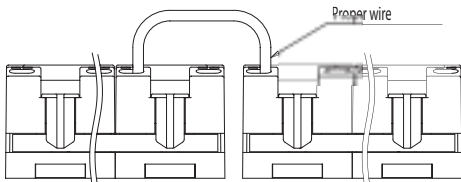
Wire	Size
Stranded wire	0.2 to 1.25 mm^2
Solid wire	0.2 to 1.5 mm^2
AWG	24 to 16

1. Use a wire with cable insulation diameter of ⌀3.15mm maximum.
2. Strip the cable insulation 9 to 10mm from the end.
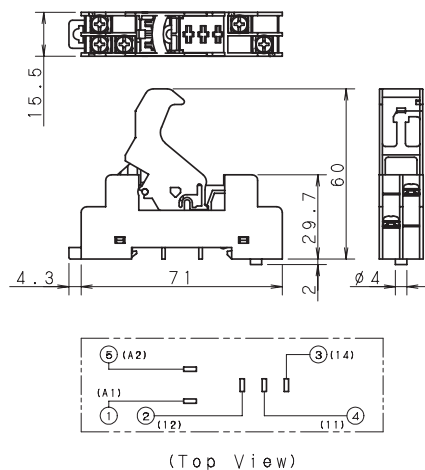
Safety Precautions

Turn off the power to the SU9Z-J5 jumper before starting installation, removal, wiring, maintenance, or inspection of the jumper. Failure to turn power off may cause an electrical shock or fire hazard.

To avoid a short circuit due to incorrect wiring, confirm which terminals are connected to the jumper before beginning wiring.
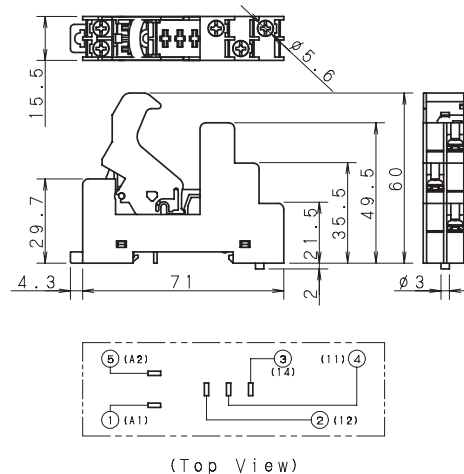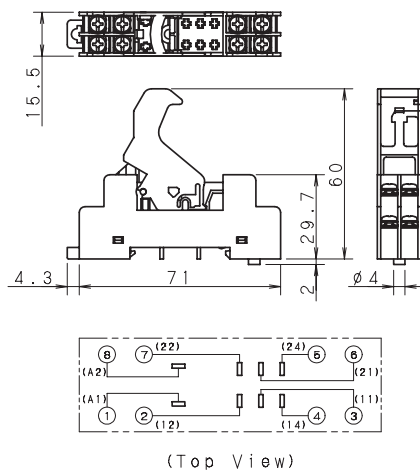
F

Sockets

SJ Series: General Information

SJ1S-05B

Style	5 -blade snap mount/surface mount
Terminal/Torque	0.6 - 1.0N•m (Maximum 1.2N•m)
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	250V, 12A
Compatible Relay	RJ1S
Compatible Timer	N/A
Hold-Down Spring	N/A
Replacement Locking Lever	SJ9Z-C

SJ1S-07L Fingersafe

Style	5-blade, snap mount/surface mount
Terminal/Torque	0.6 - 1.0N•m (Maximum 1.2N•m)
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	250V, 12A
Compatible Relay	RJ1S
Compatible Timer	N/A
Hold-Down Spring	N/A
Replacement Locking Lever	SJ9Z-C

SJ2S-05B

Style	8-blade, snap mount/surface mount
Terminal/Torque	0.6 - 1.0N•m (Maximum 1.2N•m)
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	250V, 8A
Compatible Relay	RJ2S
Compatible Timer	N/A
Hold-Down Spring	N/A
Replacement Locking Lever	SJ9Z-C

SJ1S-07L

All dimensions are in mm.

F

Sockets

SJ2S-07L Fingersafe

Style	8-blade snap mount/surface mount
Terminal/Torque	0.6 - 1.0N•m (Maximum 1.2N•m)
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	250V, 8A
Compatible Relay	RJ2S
Compatible Timer	N/A
Hold-Down Spring	N/A
Replacement Locking Lever	SJ9Z-C

(Top View)

All dimensions are in mm.

SQ Series: General Information

SQ1V-07B Fingersafe

Style	5-pin, snap mount/surface mount
Terminal/Torque	1.0N•m Maximum
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	300V, 12A
Compatible Relay	RQ1V-CM
Replacement Locking Lever	SQ9Z-C
Replacement Marking Plate	SQ9Z-P
Plug-in LED/Diode (6-24VDC)	SQ9Z-LD
Plug-in LED/RC (120/240VAC)	SQ9Z-LR
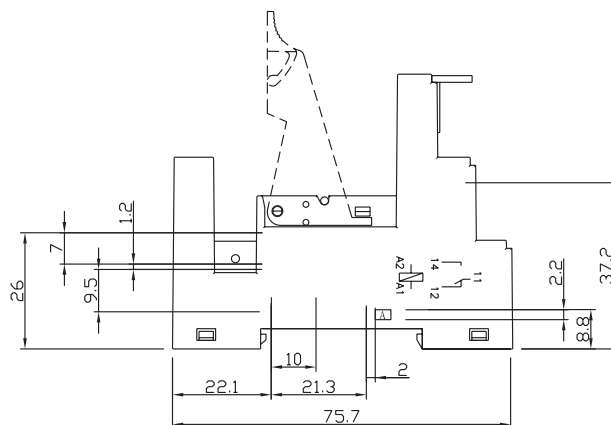
SQ2V-07B Fingersafe

Style	8-pin, snap mount/surface mount
Terminal/Torque	1.0N•m Maximum
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	300V, 8A
Compatible Relay	RQ2V, RQ1V-CH
Replacement Locking Lever	SQ9Z-C
Replacement Marking Plate	SQ9Z-P
Plug-in LED/Diode (6-24VDC)	SQ9Z-LD
Plug-in LED/RC (120/240VAC)	SQ9Z-LR
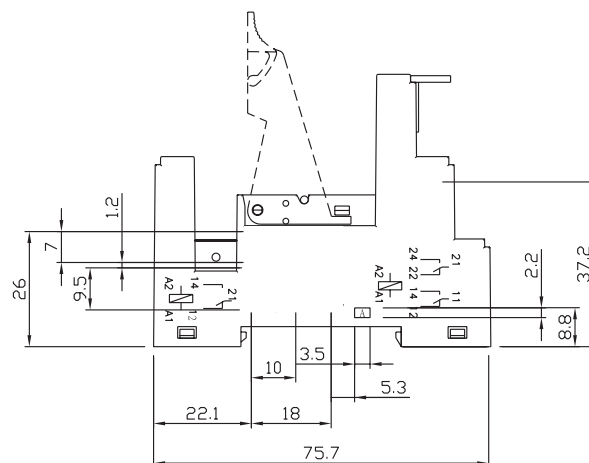
All dimensions are in mm.

SR Series: DIN Rail Snap-Mount Sockets

SR2P Sockets

SR2P-05

Style	8-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR2P
Compatible Timer	RTE-P1, GT3 (8-pin), GT5P, GE1A
Hold-Down Spring	SR2B-02F1 (for RR2P)
Hold-Down Clip	SFA-203 (for timers only, except GE1A)

SR2P-05C Fingersafe

Style	8-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR2P
Compatible Timer	RTE-P1, GT3 (8-pin), GT5P, GE1A
Hold-Down Spring	SR2B-02F1 (for RR2P)
Hold-Down Clip	SFA-203 (for timers only, except GE1A)

SR2P-06

Style	8-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR2P
Compatible Timer	RTE-P1, GT3 (8-pin), GT5P, GE1A
Hold-Down Spring	SR2B-02F1 (for RR2P)
Hold-Down Clip	SFA-202 (for timers only, except GE1A)
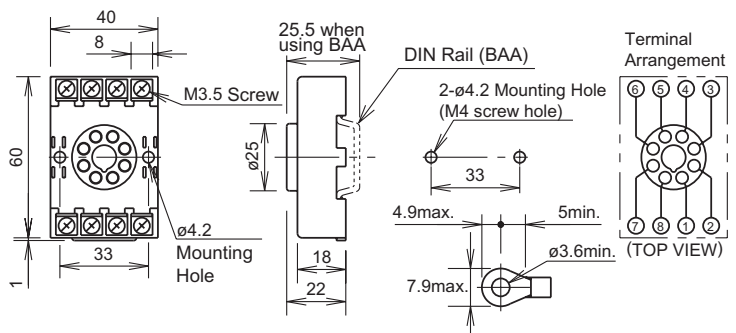
F

Sockets

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.

All dimensions are in mm.

Sockets   **IDEC**

SR3P Sockets

SR3P-05

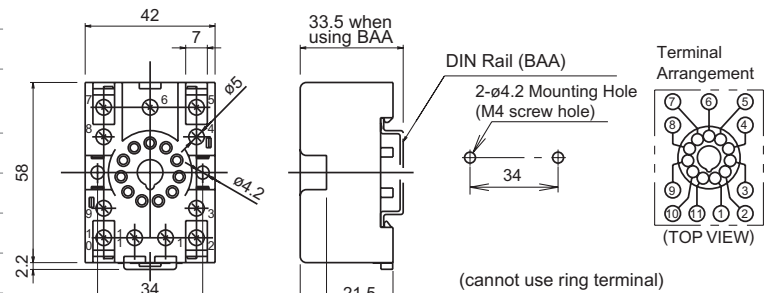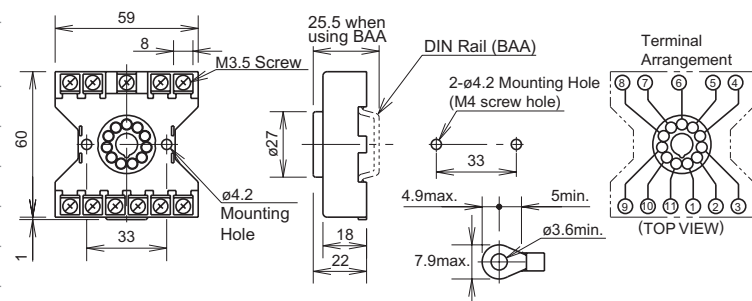| Style	11-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR3PA, RR2KP
Compatible Timer	GT3 (11-pin), RTE-P2
Hold-Down Spring	SR3B-02F1 for RR3P; SR3P-06F3 for RR2KP
Hold-Down Clip	SFA-203 (Timers)
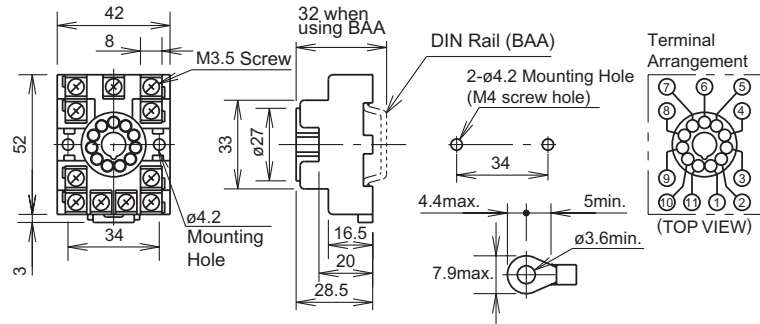
SR3P-05C Fingersafe

Style	11-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR3PA, *RR2KP (*latching relay)
Compatible Timer	GT3 (11-pin), RTE-P2
Hold-Down Spring	SR3B-02F1 for RR3PA; SR3P-06F3 for RR2KP
Hold-Down Clip	SFA-203 (Timers)

SR3P-06

Style	11-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR3PA, *RR2KP (*latching relay)
Compatible Timer	GT3 (11-pin), RTE-P2
Hold-Down Spring	SR3B-02F1 for RR3PA; SR3P-06F3 for RR2KP
Hold-Down Clip	SFA-202 (Timers)

1. For socket mounting accessories, see page F-29.
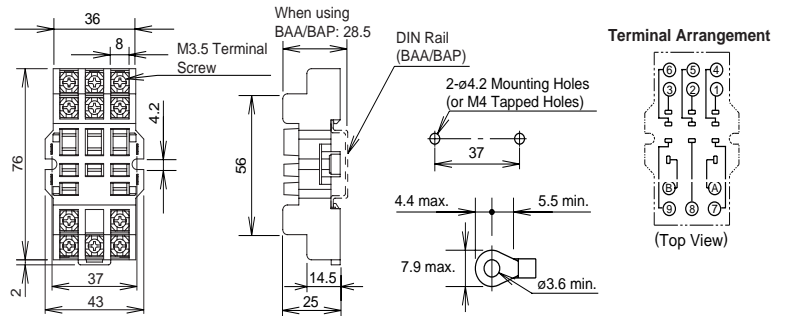*2. For hold-down clip/spring selections, see page F-4.*

All dimensions are in mm.

F

Sockets

SR3B Sockets

SR3B-05

Style	11-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp **(9 - 11.5 in•lbs)**
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 15A (10A)* (*denotes CSA rating)
Compatible Relay	RR1BA, RR2BA, RR3B
Compatible Timer	RTE-B
Hold-Down Spring	SR3B-02F1 (relays)
Hold-Down Clip	SFA-202 (relays and timers)

36
8
M3.5 Terminal
Screw
4.2
76
37
2
43

When using
BAA/BAP: 28.5

DIN Rail
(BAA/BAP)

2-ø4.2 Mounting Holes
(or M4 Tapped Holes)
37
56
4.4 max.   5.5 min.
14.5
25
7.9 max.
ø3.6 min.

Terminal Arrangement

⑥ ⑤ ④
③ ② ①

Ⓑ Ⓐ
⑨ ⑧ ⑦

(Top View)

All dimensions are in mm.

F

Sockets

1. For socket mounting accessories, see page F-29.
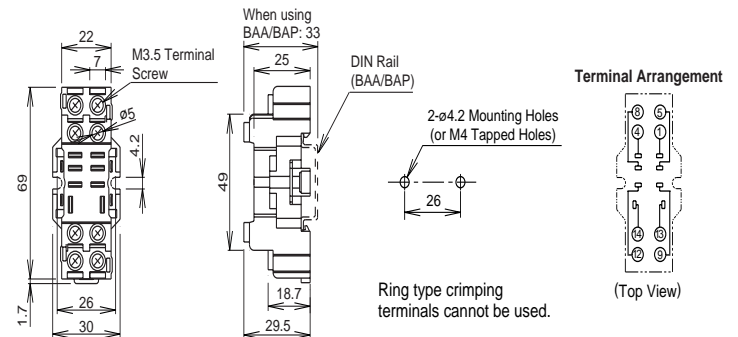*2. For hold-down clip/spring selections, see page F-4.*

SH Series: DIN Rail Snap-Mount Sockets

SH1B Sockets

SH1B-05

Style	5-blade, snap-mount/surface mount
Terminal/Torque	(Coil) M3 screws/(5.5 - 9 in•lbs) (contact) M3.5 screws (9 - 11.5 in•lbs) with captive wire clamp
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	250V, 10A
Compatible Relay	RH1B
Hold-Down Spring	SY2S-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)
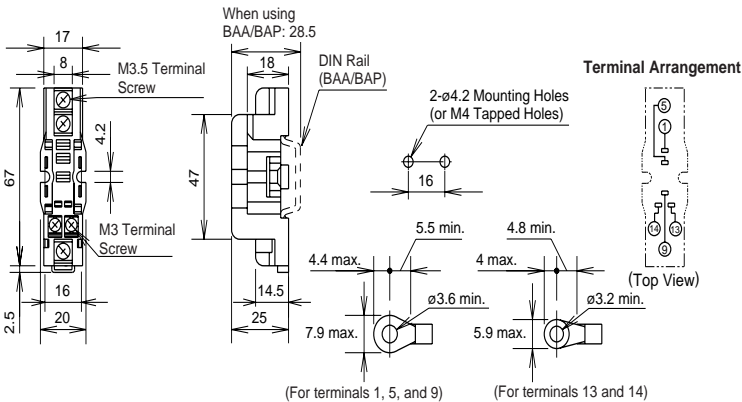
SH1B-05C Fingersafe

Style	5-blade, snap-mount/surface mount
Terminal/Torque	(Coil) M3 screws/(5.5 - 9 in•lbs) (contact) M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	250V, 10A
Compatible Relay	RH1B
Hold-Down Spring	SY2S-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

1. For socket mounting accessories, see page F-29.
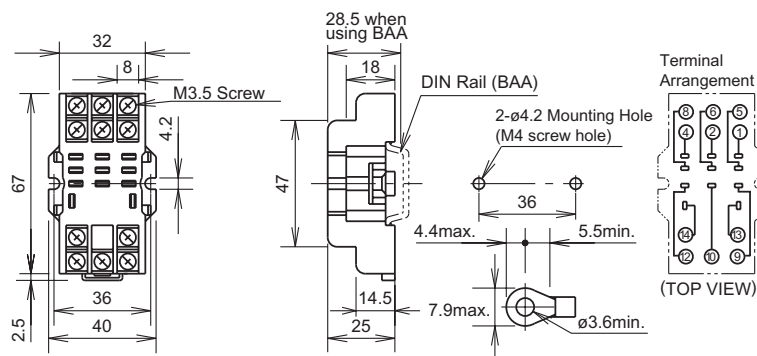*2. For hold-down clip/spring selections, see page F-4.*

All dimensions are in mm.

SH2B Sockets

SH2B-05

Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH2B
Hold-Down Spring	SY4S-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

SH2B-05C Fingersafe

Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp, finger-safe (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH2B
Hold-Down Spring	SY4S-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

1. For socket mounting accessories, see page F-29.
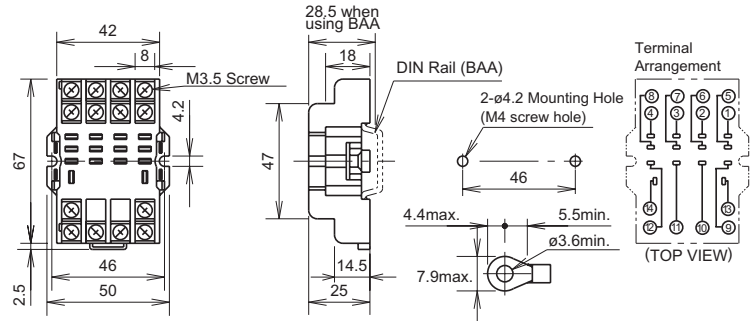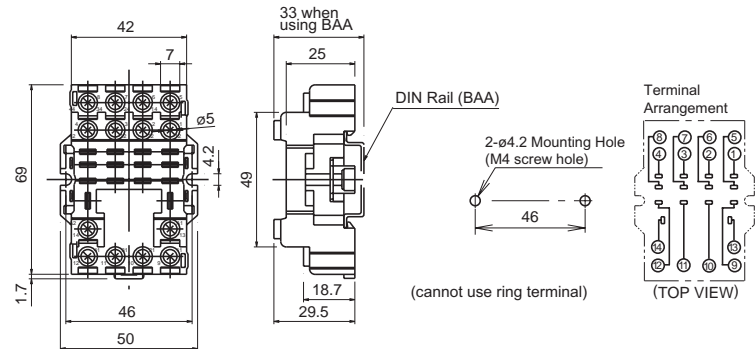2. For hold-down clip/spring selections, see page F-4.

Ring type crimping
terminals cannot be used.

All dimensions are in mm.

F

Sockets

SH3B Sockets

SH3B-05

Style	11-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH3B, RH2LB
Hold-Down Spring	SH3B-05F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

SH3B-05C Fingersafe

Style	11-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH3B, RH2LB
Hold-Down Spring	SH3B-05F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

1. For socket mounting accessories, see page F-29.
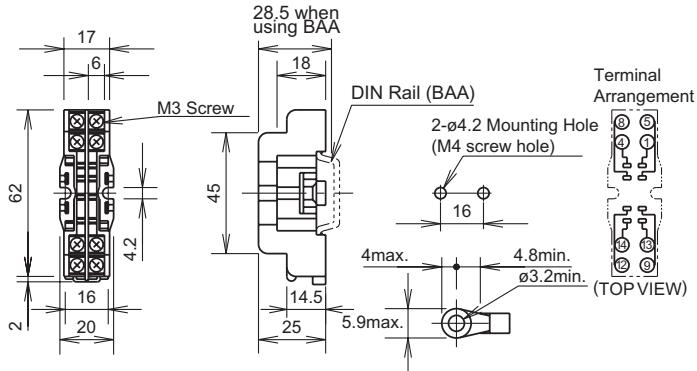*2. For hold-down clip/spring selections, see page F-4.*

All dimensions are in mm.

SH4B Sockets

SH4B-05

Style	14-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH4B
Hold-Down Spring	SH4B-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

SH4B-05C Fingersafe

Style	14-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH4B
Hold-Down Spring	SH4B-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

1. For socket mounting accessories, see page F-29.
*2. For hold-down clip/spring selections, see page F-4.*
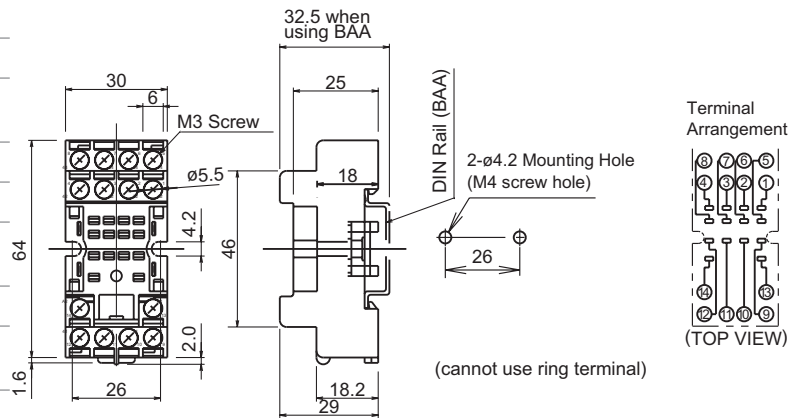
All dimensions are in mm.

F

Sockets

SY Series: DIN Rail Snap-Mount Sockets

SY2S Sockets

SY2S-05

Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3 screws with captive wire clamp (5.5 - 9 in•lbs)
Wire Size	Maximum up to 2–#14AWG
Electrical Rating	300V, 7A
Compatible Relay	RY2S, RY22S
Hold-Down Spring	SY2S-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

SY2S-05C Fingersafe

Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3 screws with captive wire clamp, fingersafe (5.5 - 9 in•lbs)
Wire Size	Maximum up to 2–#14AWG
Electrical Rating	300V, 7A
Compatible Relay	RY2S, RY22S
Hold-Down Spring	SY2S-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.

All dimensions are in mm.

F
Sockets

SY4S Sockets

SY4S-05

Style	14-blade, snap-mount/surface mount
Terminal/Torque	M3 screw with captive wire clamp (5.5 - 9 in•lbs)
Wire Size	Maximum up to 2–#14AWG
Electrical Rating	300V, 7A
Compatible Relay	RY4S, RY42S, RU4S, RU42S, RM2S, *RY2KS, (*latching relay)
Compatible Timer	GT5Y
Hold-Down Spring	SY4S-51F1 for all relays; SY4S-51F3 for RY2KS only
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch) for all relays and timers
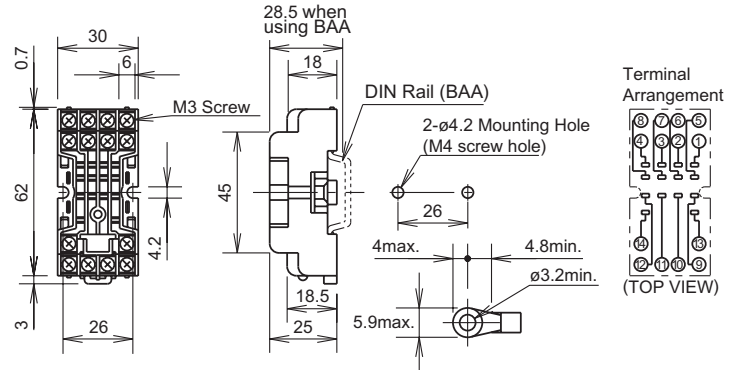
SY4S-05C Fingersafe

Style	14-blade, snap-mount/surface mount
Terminal/Torque	M3 screw with captive wire clamp, fingersafe (5.5 - 9 in•lbs)
Wire Size	Maximum up to 2–#14AWG
Electrical Rating	300V, 7A
Compatible Relay	RY4S, RY42S, RM2S, RU4S, RU42S, *RY2KS, (*latching relay)
Compatible Timer	GT5Y
Hold-Down Spring	SY4S-51F1 for all relays; SY4S-51F3 for RY2KS only
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch) for GT5Y timer and relays

All dimensions are in mm.

✋ *1. For socket mounting accessories, see page F-29.*
*2. For hold-down clip/spring selections, see page F-4.*

F

Sockets

SM2S Sockets

SM2S-05

Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3 screw with captive wire clamp (5.5 - 9 in•lbs)
Wire Size	Maximum up to 2–#14AWG
Electrical Rating	300V, 10A
Compatible Relay	RU2S, RM2S
Compatible Timer	—
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

SM2S-05C Fingersafe

Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3 screw with captive wire clamp, fingersafe (5.5 - 9 in•lbs)
Wire Size	Maximum up to 2–#14AWG
Electrical Rating	300V, 10A
Compatible Relay	RU2S, RM2S
Compatible Timer	—
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

All dimensions are in mm.

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.

SR Series: Panel Mount Sockets

SR3B-51

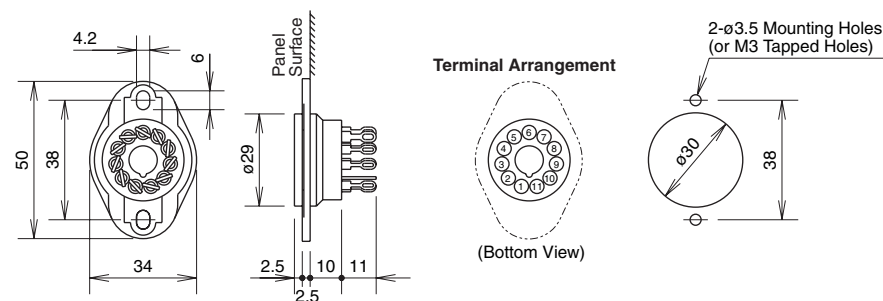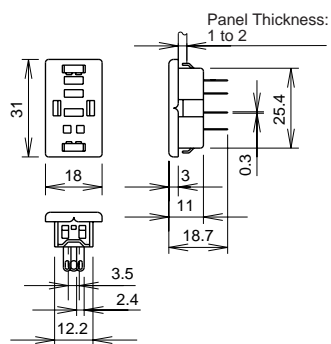| Style	11-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RR1BA, RR2BA, RR3B
Compatible Timer	RTE-B
Hold-Down Spring	SR3B-02F1 (for relays only)

Terminal Arrangement

(Bottom View)

2-ø4.2 Mounting Holes
(M4 Tapped Holes)

(Tolerance ±0.3)

∗ When two or more sockets are
mounted side by side:
L = 38 (N − 1) + 35.5
N: No. of sockets mounted
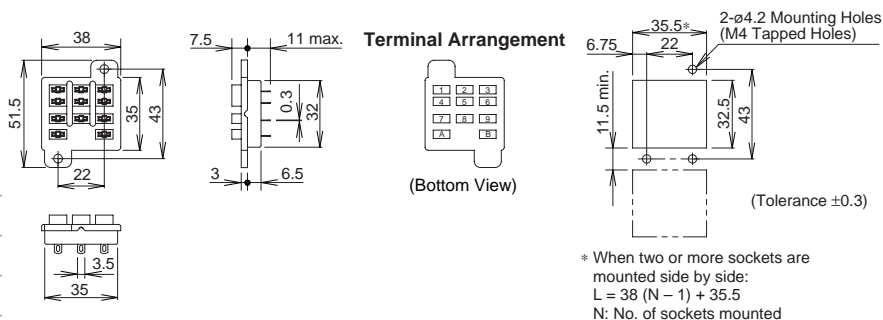
SR2P-51

Style	8-pin octal, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RR2P
Compatible Timer	RTE-P1, GT3 (8-pin), GT5P
Hold-Down Spring	SR3P-01F1 (for relay only)
Hold-Down Clip	SFA-402 (for GT3 8-pin) SFA-302 (for GT5P)

Terminal Arrangement

(Bottom View)

2-ø3.5 Mounting Holes
(or M3 Tapped Holes)
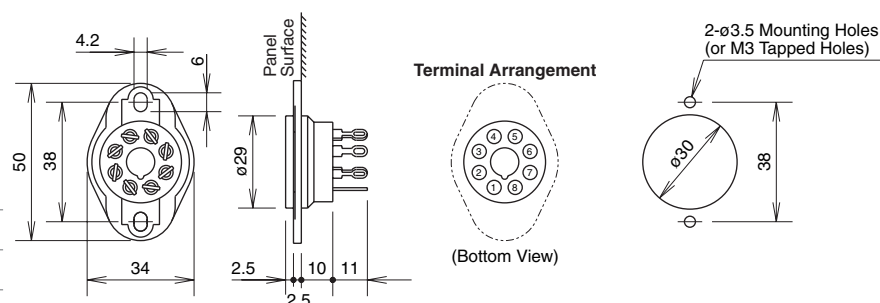
SR3P-51

Style	11-pin octal, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RR3PA, *RR2KP (*latching relay)
Compatible Timer	GT3 (11-pin), RTE-P2
Hold-Down Spring	SR3P-01F1 for RR3PA SR3P-51F3 for RR2KP
Hold-Down Clip	SFA-402 (for GT3 11-pin, RTE-P2)

Terminal Arrangement

(Bottom View)

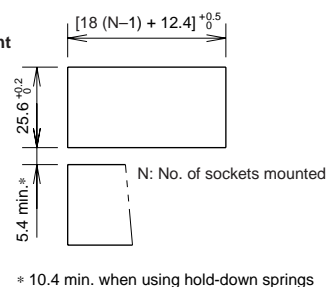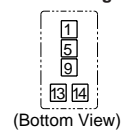2-ø3.5 Mounting Holes
(or M3 Tapped Holes)

F

Sockets

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.

All dimensions are in mm.

SH Series: Panel Mount Sockets

SH1B-51

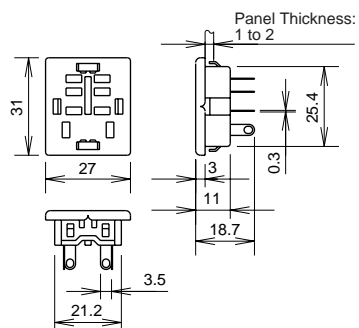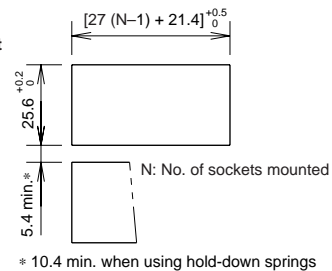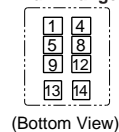| Style	5-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RH1B
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

Panel Thickness: 1 to 2

31

18

3

11

18.7

25.4

0.3

3.5

2.4

12.2

Terminal Arrangement

1
5
9
13 14

(Bottom View)

$[18 (N-1) + 12.4]^{+0.5}_0$

$25.6^{+0.2}_0$

5.4 min.*

N: No. of sockets mounted

* 10.4 min. when using hold-down springs

SH2B-51

Style	8-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RH2B
Hold-Down Spring	SY4S-51F1 SY4S-02F1 for RH2B-4C
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

Panel Thickness: 1 to 2

31

27

3

11

18.7

25.4

0.3

3.5

21.2

Terminal Arrangement

1 4
5 8
9 12
13 14

(Bottom View)

$[27 (N-1) + 21.4]^{+0.5}_0$

$25.6^{+0.2}_0$

5.4 min.*

N: No. of sockets mounted

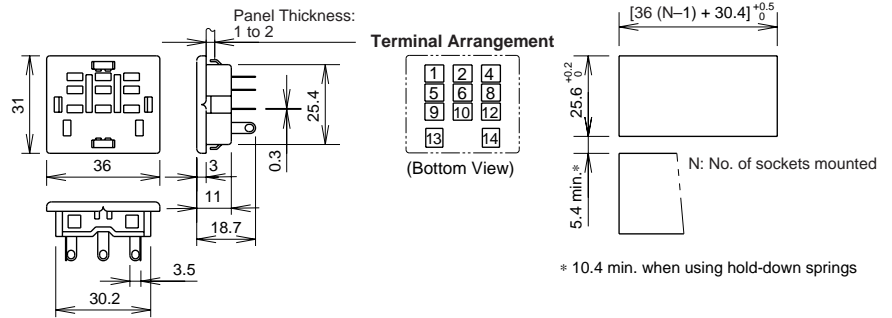* 10.4 min. when using hold-down springs

All dimensions are in mm.

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.
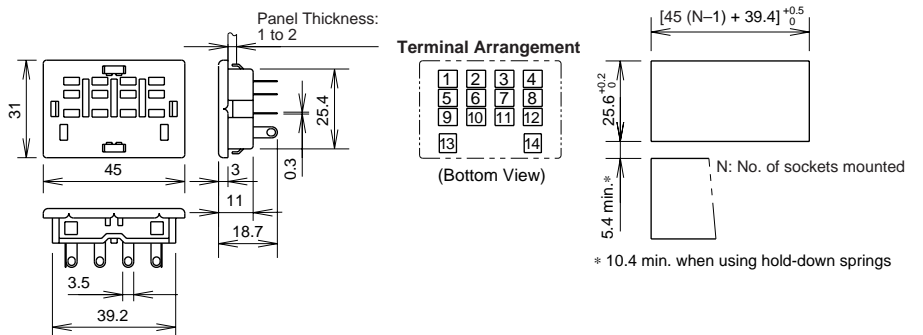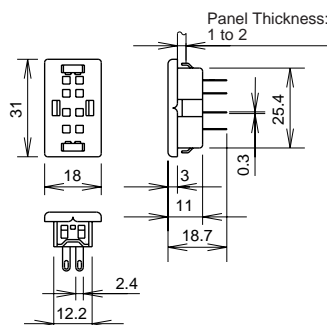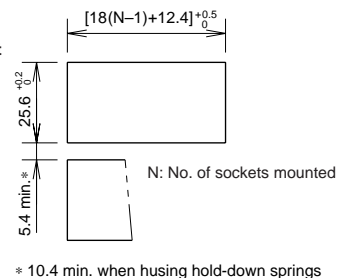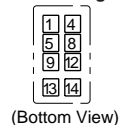
SH Series: Panel Mount Sockets, continued

SH3B-51

Style	11-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RH3B, *RH2LB (*latching relay)
Hold-Down Spring	SY4S-51F1 SY4S-02F1 for RH3B-4C
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

Panel Thickness: 1 to 2

Terminal Arrangement

1	2	4
5	6	8
9	10	12
13		14

(Bottom View)

31
36
3
11
18.7
30.2
3.5
25.4
0.3

$[36 (N–1) + 30.4]^{+0.5}_{0}$

$25.6^{+0.2}_{0}$

5.4 min.*

N: No. of sockets mounted

∗ 10.4 min. when using hold-down springs

SH4B-51

Style	14-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RH4B
Hold-Down Spring	SY4S-51F1, SY4S-02F1
Hold-Down Clip	SFA-301, SFA-302

Panel Thickness: 1 to 2

Terminal Arrangement

1	2	3	4
5	6	7	8
9	10	11	12
13			14

(Bottom View)

31
45
3
11
18.7
39.2
3.5
25.4
0.3

$[45 (N–1) + 39.4]^{+0.5}_{0}$

$25.6^{+0.2}_{0}$

5.4 min.*

N: No. of sockets mounted

∗ 10.4 min. when using hold-down springs

All dimensions are in mm.

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.

F

Sockets

SY Series: Panel Mount Sockets
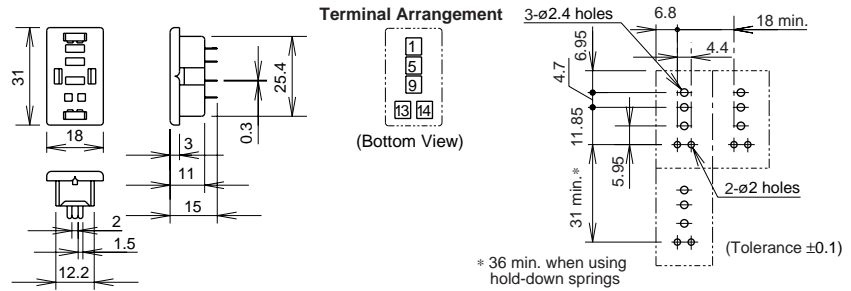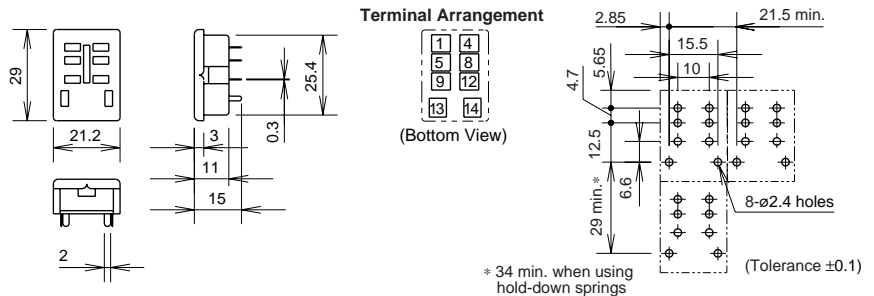

SY2S-51

Style	8-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 7A
Compatible Relay	RY2S, RY22S
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

Panel Thickness: 1 to 2

Terminal Arrangement

(Bottom View)

$[18(N–1)+12.4]^{+0.5}_{0}$

$25.6^{+0.2}_{0}$

5.4 min. *

N: No. of sockets mounted

* 10.4 min. when husing hold-down springs

SY4S-51

Style	14-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 7A
Compatible Relay	RY4S, RY42S, RM2S, RY2KS, RU4S, RU2S, RU42S
Compatible Timer	GT5Y
Hold-Down Spring	SY4S-51F1 for all relays except; SY4S-02F3 for RY2KS relay
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)
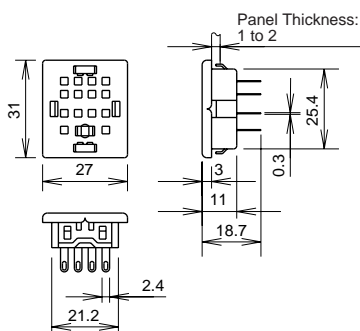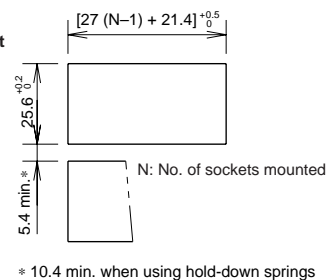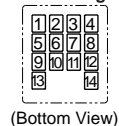
Panel Thickness: 1 to 2

Terminal Arrangement

(Bottom View)

$[27 (N–1) + 21.4]^{+0.5}_{0}$

$25.6^{+0.2}_{0}$

5.4 min. *

N: No. of sockets mounted

* 10.4 min. when using hold-down springs

All dimensions are in mm.

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.
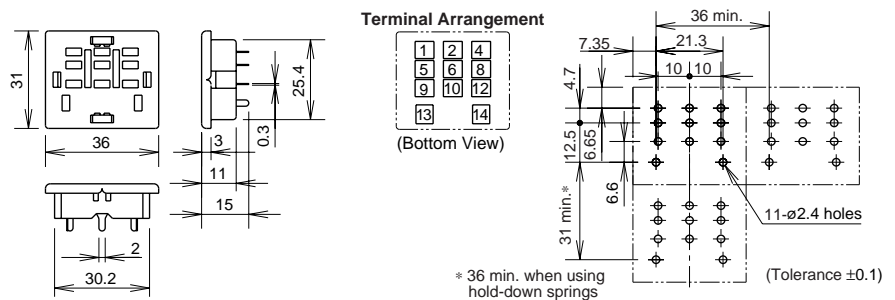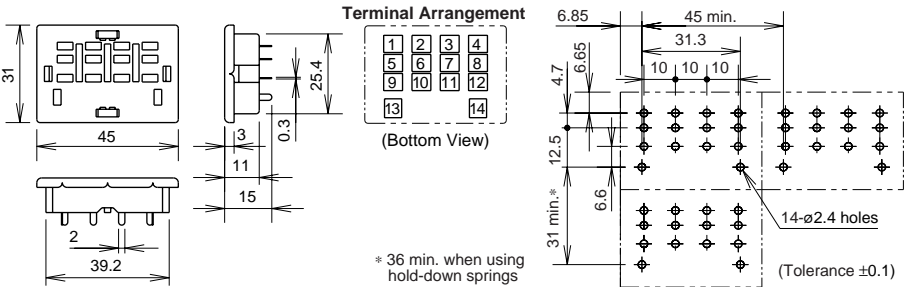
SH Series: PC Board Mount Sockets

SH1B-62

Style	5-blade
Terminal	Solder/PCB mount
Electrical Rating	250V, 10A
Compatible Relay	RH1B
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

Terminal Arrangement

(Bottom View)

* 36 min. when using hold-down springs

(Tolerance ±0.1)

SH2B-62

Style	8-blade
Terminal	Solder/PCB mount
Electrical Rating	300V, 10A
Compatible Relay	RH2B
Hold-Down Spring	SY4S-51F1, SY4S-02F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

Terminal Arrangement

(Bottom View)

* 34 min. when using hold-down springs

(Tolerance ±0.1)

SH3B-62

Style	11-blade
Terminal	Solder/PCB mount
Electrical Rating	300V, 10A
Compatible Relay	RH3B, *RH2LB (*latching relay)
Hold-Down Spring	SY4S-51F1, SY4S-02F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

Terminal Arrangement

(Bottom View)

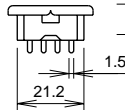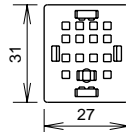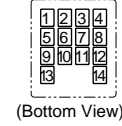* 36 min. when using hold-down springs

(Tolerance ±0.1)

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.

All dimensions are in mm.

F

Sockets

SH Series: PC Board Mount Sockets, continued

SH4B-62

Style	14-blade
Terminal	Solder/ PCB mount
Electrical Rating	300V, 10A
Compatible Relay	RH4B
Hold-Down Springs	SY4S-51F1, SH4B-02F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

Terminal Arrangement

1	2	3	4
5	6	7	8
9	10	11	12
13			14

(Bottom View)

∗ 36 min. when using hold-down springs

14-ø2.4 holes

(Tolerance ±0.1)

SY Series: PC Board Mount Sockets

SY2S-61

Style	8-blade
Terminal	Solder/PCB mount
Electrical Rating	300V, 7A
Compatible Relay	RY2S, RY22S
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

Terminal Arrangement

1			4
5			8
9			12
13	14		

(Bottom View)

∗ 19.2 min. when using hold-down springs

8-ø2 holes

(Tolerance ±0.1)
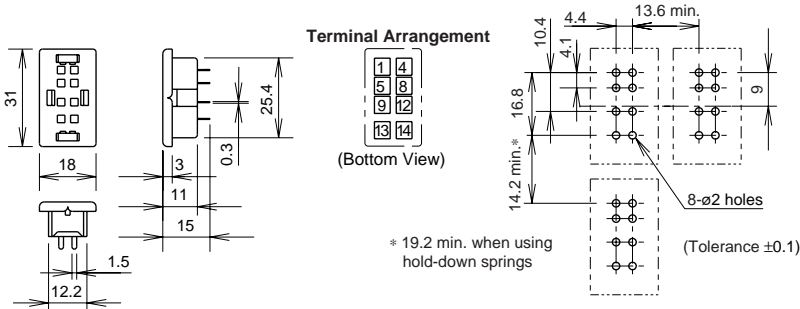
All dimensions are in mm.

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.

SY Series: PC Mount Sockets, continued

## SY4S-61

Style	14-blade
Terminal	Solder/PCB mount
Electrical Rating	300V, 7A
Compatible Relay	RY4S, RY42S, RM2S, *RY2KS, RU4S, RU42S, RU2S (*latching relay)
Compatible Timer	GT5Y
Hold-Down Spring	SY4S-51F1, SY4S-02F1
Hold-Down Clip	SFA-301 (top notch; except GT5Y and RY2KS) SFA-302 (side notch for all)

Terminal Arrangement

(Bottom View)

* 19.2 min. when using hold-down springs

15-ø2 holes

(Tolerance ±0.1)
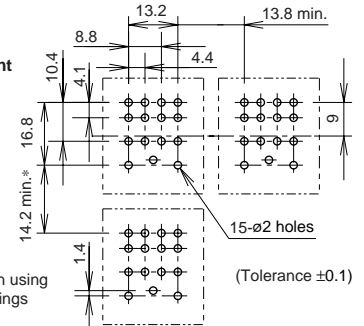
SY4S-62

Style	14-blade
Terminal	Solder/PCB mount
Electrical Rating	250V, 7A
Compatible Relay	RY4S, RY42S, RU4S, RU42S, *RY2KS (*latching relay)
Compatible Timer	GT5Y
Hold-Down Spring	SY4S-51F1, SY4S-51F3, SY4S-51F4, *SY4S-02F1, *SY4S-02F3 (*when mounting a relay with check button)

Terminal Arrangement

(Bottom View)
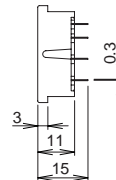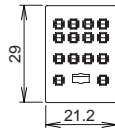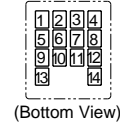
* 17.2 min. when using a hold-down spring.
** 13.2 min. when using a hold-down spring for the relay with check button.
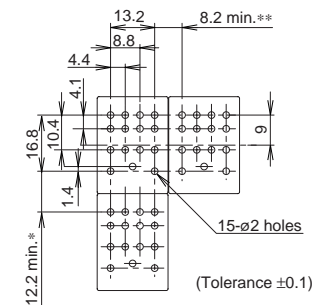
15-ø2 holes

(Tolerance ±0.1)
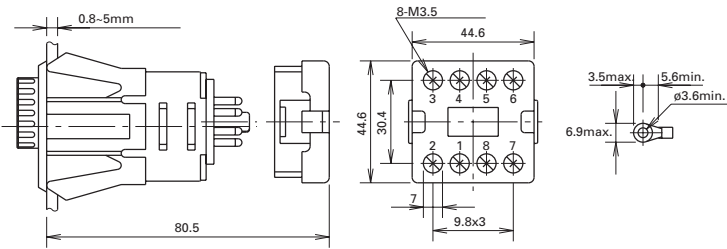
All dimensions are in mm.

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.

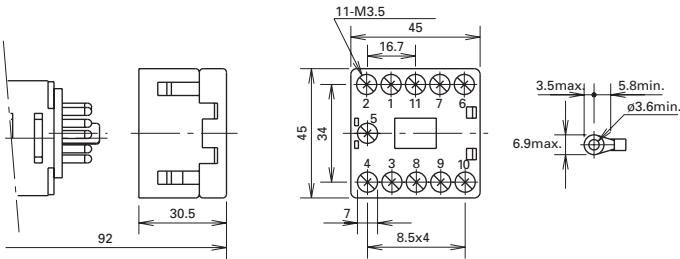## SR Series: Socket for Panel Mounted Timers

SR6P-M08G

Style	8-pin
Terminal	M3.5 screws with captive wire clamp
Electrical Rating	300V, 10A
Wire Size	Maximum up to 2-#12AWG
Compatible Timer	GT3 (8-pin), RTE-P1, GE1A
Hold-Down Spring	SY4S-02F1

SR6P-M11G

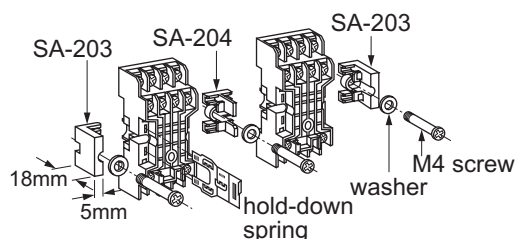| Style	11-pin
Terminal	M3.5 screws with captive wire clamp
Electrical Rating	300V, 10A
Wire Size	Maximum up to 2-#12AWG
Compatible Timer	GT3 (11-pin), RTE-P2
Hold-Down Spring	------

All dimensions are in mm.

1. For socket mounting accessories, see page F-29.
2. For hold-down clip/spring selections, see page F-4.

IDEC *Sockets*

Accessories

SA-203 SA-204 SA-203 M4 screw washer hold-down spring 18mm 5mm

Description	Appearance	Use with	Part No.	Remarks
Aluminum DIN Rail (1 meter length)		All DIN rail sockets	BNDN1000	IDEC offers a low-profile DIN rail (BNDN1000). The BNDN1000 is designed to accommodate snap-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).
DIN Rail End Stop		DIN rail	BNL5	9.1 mm wide.
Surface Mount End Connector		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.
Surface Mount Connector		SY2S, SY4S, SR3B, SH1B, SH2B, SH3B, SH4B	SA-405	For use between adjoining sockets when surface mounting.
DIN Rail Spacer		All DIN rail sockets	SA-406	
Steel Mounting Plates (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.
Relay Holders		RH2B, RM2S, RY4S, RY42S, RU4S, RU42S	RH-01	For diagram, see next page.
		RY2S, RH1B	RH-03	
Replacement Hold-Down Spring Anchor		Horseshoe clip for all DIN rail sockets except SR*P-05(C)	Y778-011	For use with hold-down springs (bale wire types). or DIN rail mount sockets. 2 pieces included with each socket.
Hold-Down Spring for SR*P-05(C)		Chair clip for SR*P-05(C)	Y703-102	For SR2P-05, SR2P-05C, SR3P-05, SR3P-05C

F

Sockets

Instructions

Mounting Snap-Mount Sockets

Mount

Figure 1

Remove

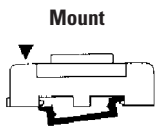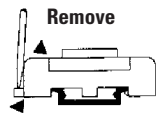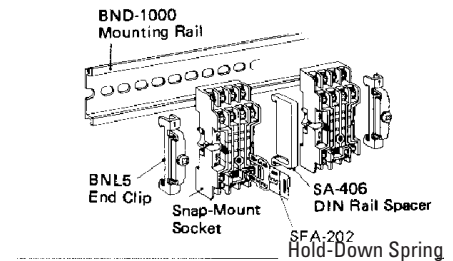**Figure 2**

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.

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.

BND-1000
Mounting Rail

BNL5
End Clip

Snap-Mount
Socket

SA-406
DIN Rail Spacer

SFA-202
Hold-Down Spring

Mounting Relay Holders

RH-01 or -03

Figure 1

.138 dia hole
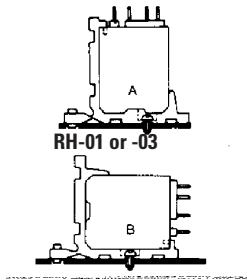or #5-44
tapped hole

.138 dia. hole

Figure 2

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).
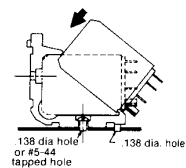
Push down until the relay snaps into place.

Mounting Hold-Down Springs

Take the two anchor clips (horseshoe / U-shaped piece) that come with the socket and insert into the slits on both sides of the socket. Make sure the raised notches on the anchor clip face into the socket.

Plug relay into socket

Insert the open ends of the hold-down spring into either the first or second hole of the anchor clip. The relay-spring combination will determine which hole should be used.
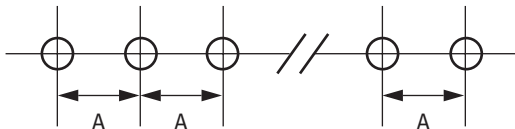
Slide spring over relay.

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"

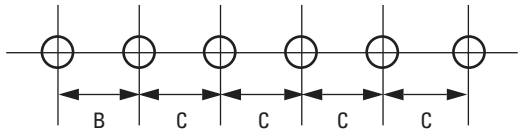*1. Drawing is not to scale.*

Snap-Mount Sockets

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).
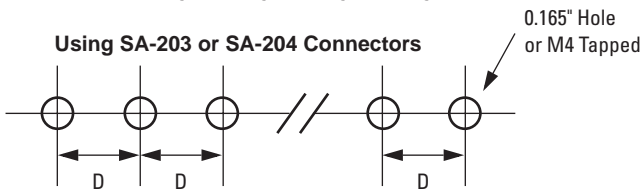
Dimension Table

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

0.165" Hole or M4 Tapped

2. Drawings are not to scale.

F

Sockets

Dimensions, continued

Collective Panel Mounting
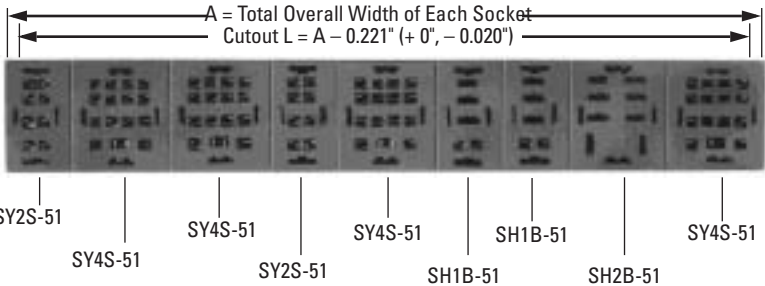
SY4S-51

RM2S

RH1B

RH2B

RY2KS
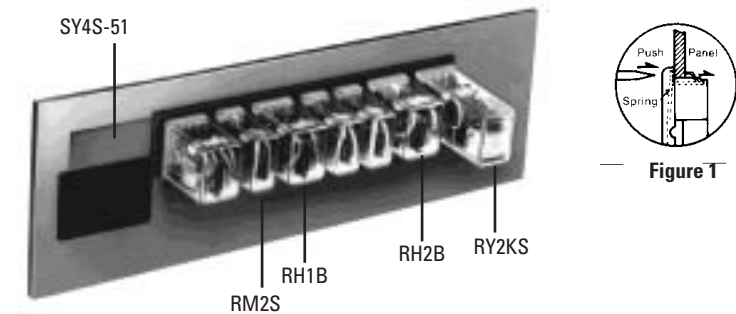
SH and SY series panel mount sockets are designed to mount collectively in panel cut-outs. Insert socket with mounting springs facing the top and bottom edge of the panel cut-out. Push the socket until the mounting spring clips onto the panel. (See Figure 1.)

Push | Panel

Spring

Figure 1

Dimension Table

Part No.	Width	Relay
SY4S-51	1.063"	RY4S, RY42, RY2KS, RM2S
SH4B-51	1.772"	RH4B
SH3B-51	1.418"	RH3B, RH2LB
SH2B-51	1.063"	RH2B
SH1B-51	0.709"	RH1B
SY2S-51	0.709"	RY2S, RY22S

F

Sockets

How to Calculate Cutout Length (L)

Cutout L = A (Total Overall Width of Each Socket) − 0.221" (+ 0", − 0.020")

Example:

A = Total Overall Width of Each Socket

Cutout L = A − 0.221" (+ 0", − 0.020")

SY2S-51

SY4S-51

SY4S-51

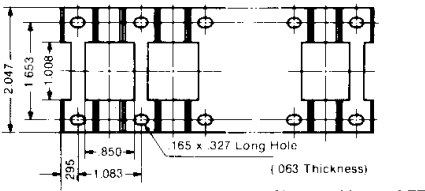SY2S-51

SY4S-51

SH1B-51

SH1B-51

SH2B-51

SY4S-51

L = [0.709" + 1.063" + 1.063" + 0.709" + 1.063" + 0.709" + 1.063" + 1.063"] − 0.221" = **7.93"**

L = 7.93" (+ 0", − 0.020")

Mounting Plate

2.047

1.653

1.008

.295

.850

1.083

.165 x .327 Long Hole

(.063 Thickness)